SERVICE MANUAL

AA-2W CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KV-29FV16A	*RM-Y171*	*Argentina*	*SCC-S34P-A*

KV-29FV16A

RM-Y171

TRINITRON® COLOR TELEVISION

SONY®

9-965-908-01

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SPECIFICATIONS

	KV-29FV16A
Power Requirements	120-220V, 50/60Hz
Number of Inputs/Outputs	
Video [1]	3
S Video [2]	2
Y,PB, PR [3]	1
Audio [4]	3
Audio Out [5]	1
Monitor Out	1
S-Link	YES
Speaker Output (W)	15W x 2
Power Consumption (W)	
In Use (Max)	205W
In Standby	1W
Dimensions (W x H x D)	
mm	762 x 604 x 519 mm
in	30 x 23 7/8 x 20 1/2 in
Mass	
kg	49 kg
lbs	110 lbs

1) 1 Vp-p 75 ohms unbalanced, sync negative

2) Y: 1 Vp-p 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms

3) Y: 1.0 Vp-p, 75 ohms, sync negative;
PB: 0.7 Vp-p, 75 ohms; PR: Vp-p, 75 ohms

4) 500 ^{m}Vrms (100% modulation), Impedance: 47 kilohms

5) More than 408 mVrms at the maximum volume setting (variable)
More than 408 mVrms (fix); Impedance (output): 2 kilohms

Television system
NTSC/PAL-M/PAL-N Color System

Channel coverage
VHF: 2-13/ VHF: 14-69/ CATV: 1-125

Picture tube
Flat Trinitron® tube

Visible screen size
27-inch picture measured diagonally

Actual screen size
29-inch measured diagonally

Antenna
75 ohm external terminal for VHF/UHF

Supplied Accessories
Remote Control RM-Y171
Battery size AA (R6) w/2

Optional Assessories
Connecting Cables:
RK-74A, VMC-810/820830hg, VMC-10HG/30HG,
VMC-720M, VMC-810S/820S, YC-15V/30V,
YC-15/30HG, RK-G69HG, RKC-515HG
AV Cable: VMC-810/820/830 HG
Audio Cable: RKC-515HG
S-LINK Cable: RK-G69HG
Component Video Cable: VMC-10/30 HG
TV Stand: SU-32FD2, SU-36FD2, SU-32XBR2, SU-36XBR2
UV Mixer: EAC-66

Design and specifications are subject to change without notice.

(●) SRS (SOUND RETRIEVAL SYSTEM)

The (●) SRS (SOUND RETRIEVAL SYSTEM) is manufactured by Sony Corporation under license from SRS Labs, Inc. It is covered by U.S. Patent No. 4,748,669. Other U.S. and foreign patents pending.

The word 'SRS' and the SRS symbol (●) are registered trademarks of SRS Labs, Inc. BBE and BBE symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4,638,258 and 4,482,866.

WARNINGS AND CAUTIONS

CAUTION

Short circuit the anode of the picture tube and the anode cap to the metal chassis, crt shield, or carbon painted on the crt, after removing the anode.

WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with sony parts whose part numbers appear as shown in this manual or in supplements published by sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

ATTENTION!!

Apres avoir deconnecte le cap de l'anode, court-circuiter l'anode du tube cathodique et celui de l'anode du cap au chassis metallique de l'appareil, ou la couche de carbone peinte sur le tube cathodique ou au blindage du tube cathodique.

Afin d'eviter tout risque d'electrocution provenant d'un châssis sous tension, un transformateur d'isolement doit etre utilisé lors de tout dépannage. Le châssis de ce récepteur est directement raccordé à l'alimentation du secteur.

⚠ ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

Les composants identifies par une trame et par une marque ⚠ sur les schemas de principe, les vues explosees et les listes de pieces sont d'une importance critique pour la securite du fonctionnement. Ne les remplacer que par des composants sony dont le numero de piece est indique dans le present manuel ou dans des supplements publies par sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. Suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement suspecte.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are "pinched" or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.

8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble-light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

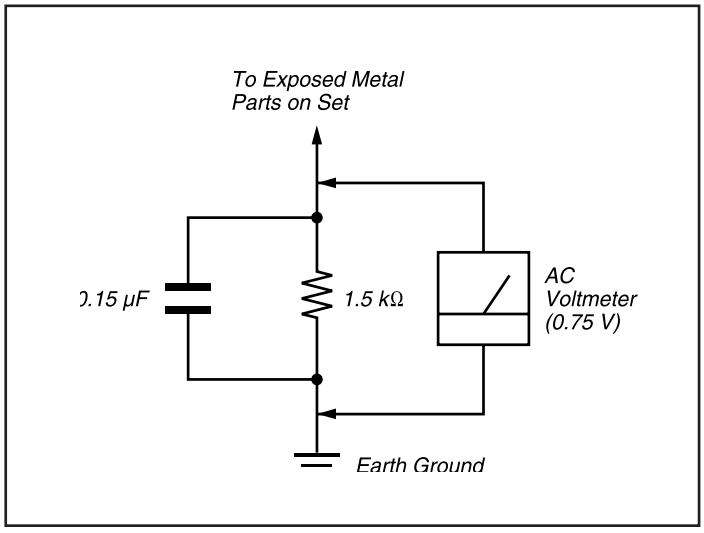


Figure A. Using an AC voltmeter to check AC leakage.

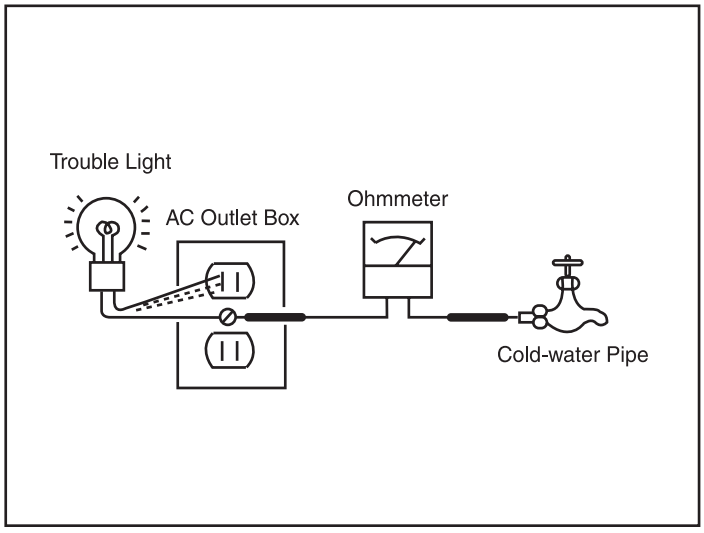
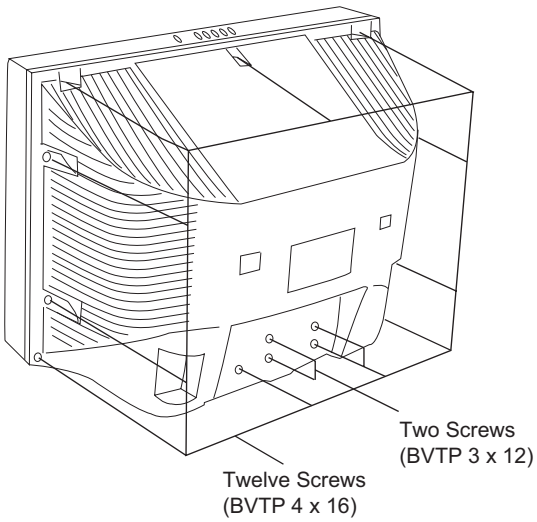


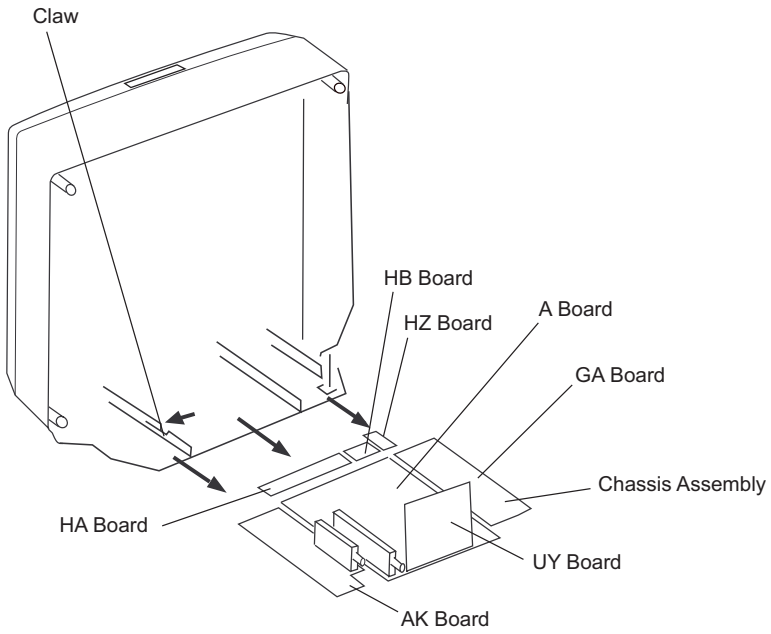
Figure B. Checking for earth ground.

SECTION 1: DISASSEMBLY

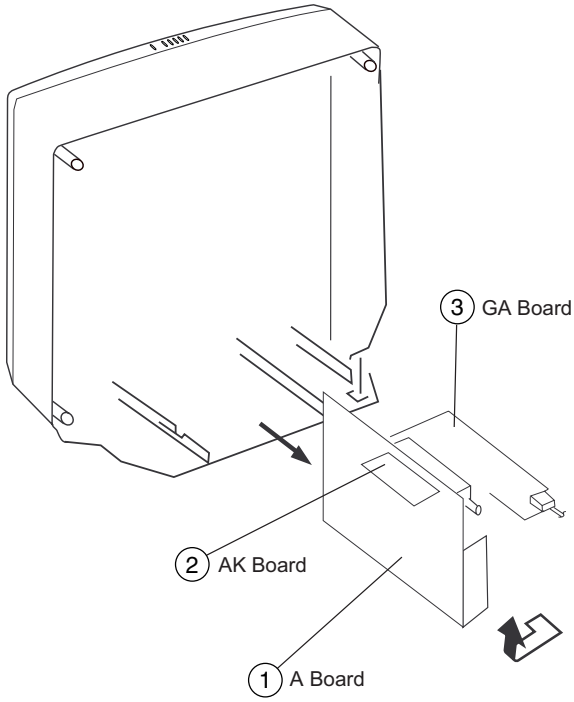
1-1. REAR COVER REMOVAL



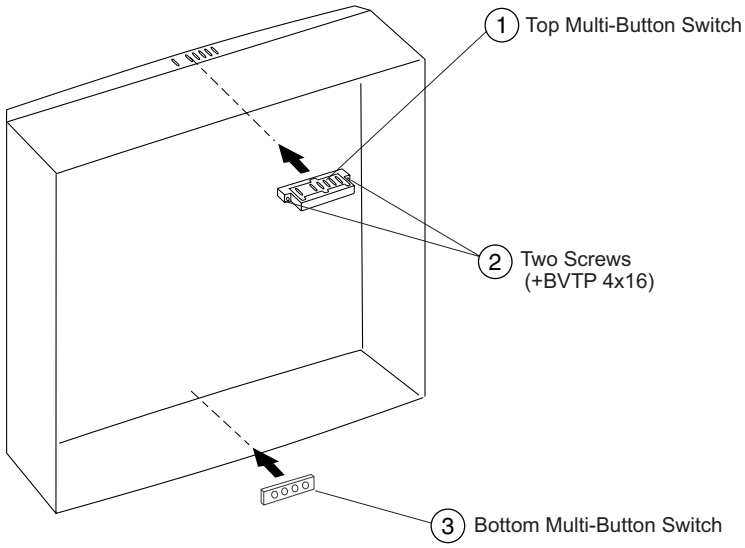
1-2. CHASSIS ASSEMBLY REMOVAL



1-3. SERVICE POSITION

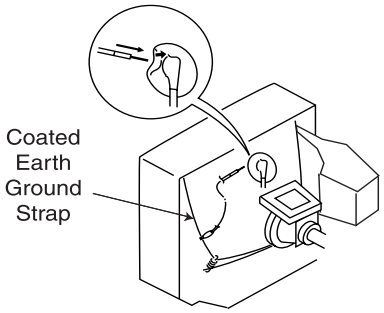


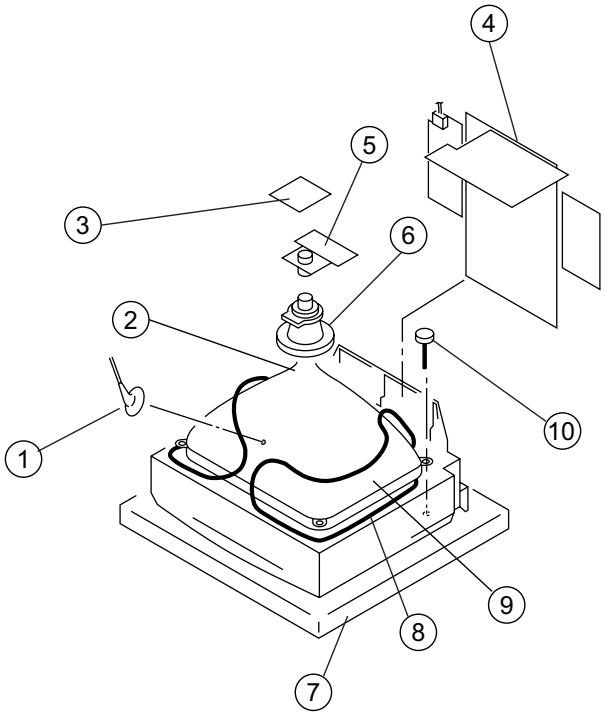
1-4. MULTI-BUTTON SWITCH REMOVAL



1-5. PICTURE TUBE REMOVAL

WARNING: BEFORE REMOVING THE ANODE CAP
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



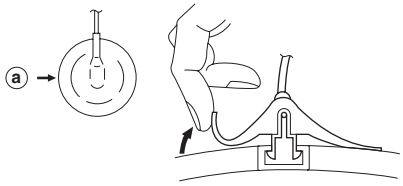


1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the deflection yoke, neck assembly, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the neck assembly fixing screw and remove.
6. Loosen the deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the degaussing coil holders.
8. Remove the degaussing coils.
9. Remove the CRT grounding strap and spring tension devices.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT [Take care not to handle the CRT by the neck].

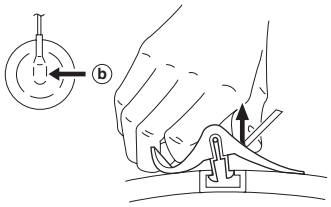
ANODE CAP REMOVAL PROCEDURE

WARNING: High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT before attempting to remove the anode cap. After removing the anode cap, short circuit to either the metal chassis, CRT shield, or carbon painted on the CRT.

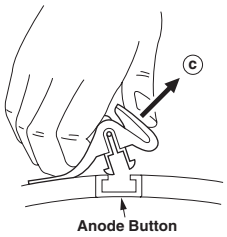
REMOVAL PROCEDURES



Turn up one side of the rubber cap inthe direction indicated by arrow a .



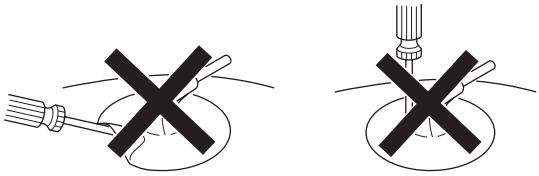
Use your thumb to pull the rubber cap firmly in the direction indicated by arrow b .



When one side of the rubber cap separates from the anode button, the anode cap can be removed by turning the rubber cap and pulling it in the direction of arrow c .

HOW TO HANDLE AN ANODE CAP

1. Do not use sharp objects which may cause damage to the surface of the anode cap.
2. To avoid damaging the anode cap, do not squeeze the rubber covering too hard. A material fitting called a shatter-hook terminalis built into the rubber.
3. Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



SECTION 2: SET-UP ADJUSTMENTS

The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted:

PICTURE CONTROL: normal
BRIGHTNESS CONTROL: normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G2)/White Balance

Test Equipment Required:

1. Color Bar Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital Multimeter
5. Oscilloscope
6. CRT Analyzer

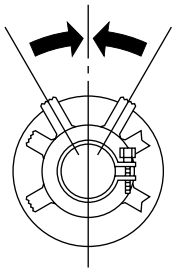
2-1. BEAM LANDING

Preparation:

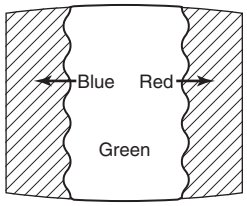
- Input a white pattern signal.
- Face the picture tube in an East or West direction to reduce the influence of geomagnetism.

NOTE: Do not use the hand degausser; it magnetizes the CRT .

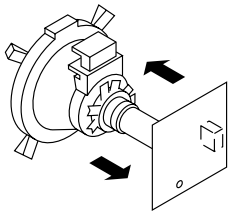
1. Input white pattern from pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown below:



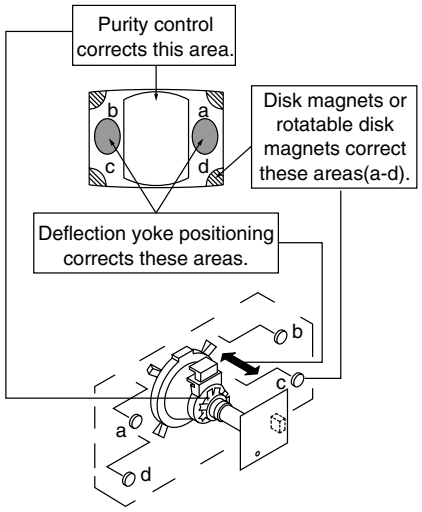
3. Input green pattern from pattern generator.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are even on both sides.



5. Move the deflection yoke forward, and adjust so that the entire screen becomes green.



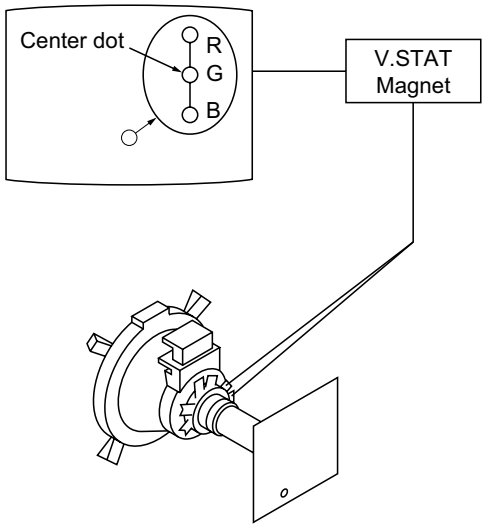
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets.



2-2. CONVERGENGE

Preparation:

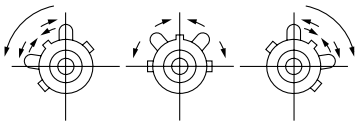
- Perform FOCUS, V. LIN and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Input dot pattern.



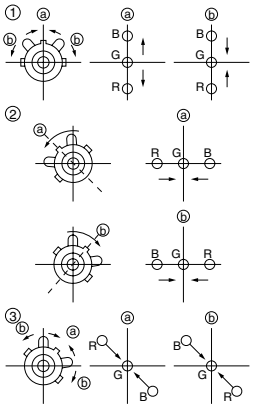
VERTICAL AND HORIZONTAL STATIC CONVERGENCE

1. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen (Vertical movement).

   Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



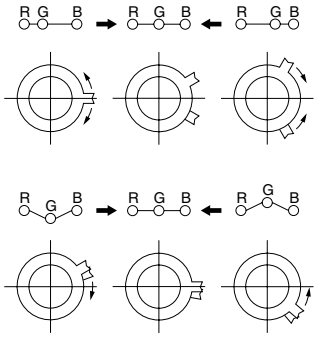
2. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green, and blue dots move as shown below:



OPERATION OF BMC (HEXAPOLE) MAGNET

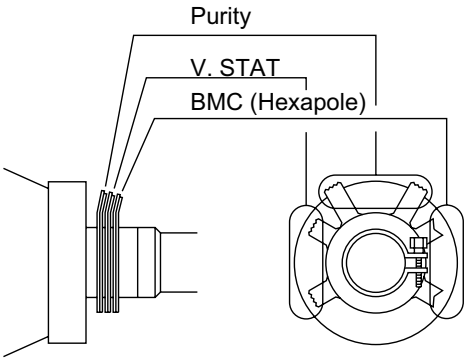
The respective dot positions resulting from moving each magnet interact, so perform adjustment while tracking.

1 Use the V.STAT tabs to adjust the red, green, and blue dots so they line up at the center of the screen (move the dots in a horizontal direction).



Y SEPARATION AXIS CORRECTION MAGNET ADJUSTMENT

1. Input cross-hatch pattern, adjust PICTURE to minimum and BRIGHTNESS to normal.
2. Adjust the deflection yoke upright so it touches the CRT.
3. Adjust so that the Y separation axis correction magnet on the neck assembly is symmetrical from top to bottom (open state).

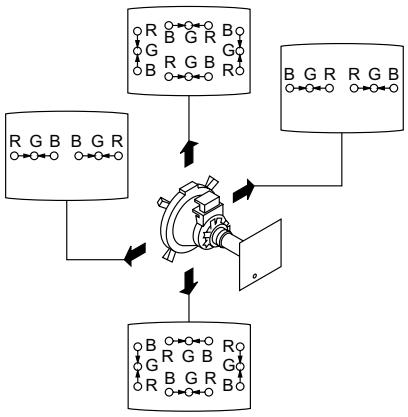


4. Return the deflection yoke to its original position.

DYNAMIC CONVERGENCE ADJUSTMENT

Before starting, perform Vertical and Horizontal Static Convergence Adjustment.

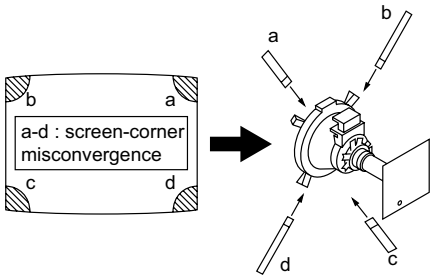
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below:



4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

SCREEN-CORNER CONVERGENCE

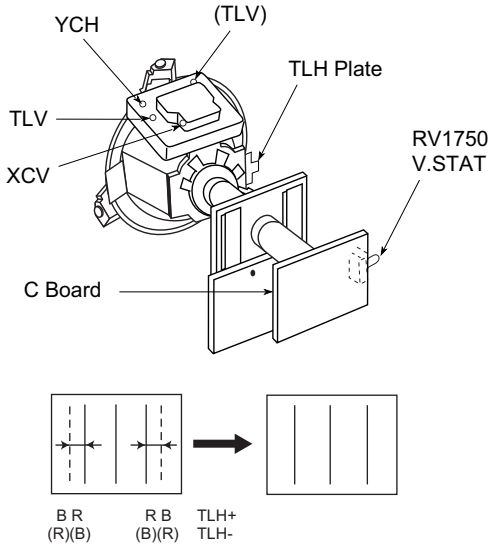
1. Affix a permalloy assembly corresponding to the misconverged areas:



TLH PLATE ADJUSTMENT

Preparation:

- Input crosshatch pattern.
- Adjust Picture Quality to standard, Picture and Brightness to 50%, and Other to standard.
- Adjust the Horizontal Convergence of red and blue dots by tilting the TLH plate on the deflection yoke.



1. Adjust XCV core to balance X axis.
2. Adjust YCH VR to balance Y axis.
3. Adjust vertical red and blue convergence with V.TILT (TLV VR.) Perform adjustments while tracking items 1 and 2.
4. Adjust Y MAGNET to correct V.BOW Geometery Distortion.
5. Adjust H-TRP to correct H.Trapezoid Geometry Distortion.

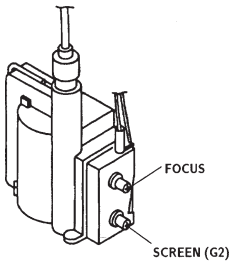
After adjusting items 4 and 5, confirm overall geometry again.

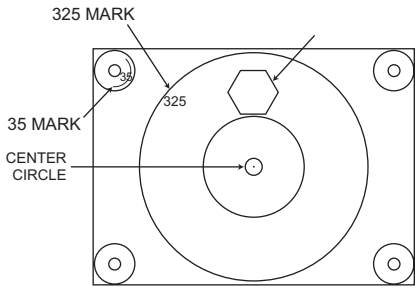
H CENTER SW ADJUSTMENT

Before adjusting H Center SW (S501, S502), make sure that HPOS data is “7”.

2-3. FOCUS

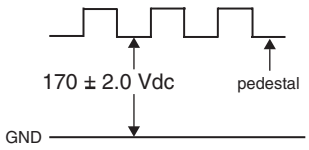
1. Input monoscope signal.
2. Set user controls to normal.
3. Set video mode to STANDARD.
4. Set the PICTURE to maximum.
5. Adjust at 325 Mark for best center/corner focus balance.
6. Receive an entire white signal. Make sure Magenta Ring is at an acceptable level.





2-4. SCREEN (G2)

1. Input signal from the pattern generator.
2. Set the user controls to NORMAL.
3. Attach the G2-Jig to the C Board.
4. Adjust RCUT, GCUT, BCUT, and SBRT in service mode with an oscilloscope so that voltages on the red, green, and blue cathodes are 170 ± 2.0 V DC.
5. Observe the screen and adjust SCREEN (G2) VR to obtain the faintly visible background of the dot signal.
6. Push the TEST + JUMP (+ Channel) to cut off the signal. The screen should be bright or dark. Brightness of raster must be increased when adjusting.
7. Adjust screen VR until the screen is slightly cut off, or scarcely lights up. A signal cannot be seen when the brightness of the raster is high.
8. Push the JUMP again to release the cut off.



2-5. WHITE BALANCE ADJUSTMENTS

NO.	Disp.	Item	All Models
24	RDRV	Red Drive	31
25	GDRV	Green Drive	31
26	BDRV	Blue Drive	31
27	RCUT	Red Cut-off	7
28	GCUT	Green Cut-off	7
29	BCUT	Blue Cut-off	7
38	SBRT	Sub Bright	7

1. Set program palette to STANDARD and push RESET.
2. Input an entire white signal.
3. Set to Service Adjustment Mode.
4. Set the PICTURE and BRIGHT to minimum.
5. Adjust with SBRT if necessary.
6. Set RCUT to “14”.
7. Select GCUT and BCUT with 1 and 4 .
8. Adjust by pressing 3 and 6 for the best white balance.
9. Set the PICTURE and BRIGHT to maximum.
10. Select GDRV and BDRV with 1 and 4 .
11. Adjust withg 3 and 6 for the best white balance.
12. Write into the memory by pressing MUTING then ENTER.
13. Repeat steps 1-12 for GDR4, BDR4, GCU4 and BCU4 using Video 4 input.

* Use values from Sub Contrast Adjustments

White balance should be adjusted after Sub Contrast because RDRV is also used in Sub Contrast Adjustment. (See page 19).

SECTION 3: SAFETY RELATED ADJUSTMENTS

3-1. ⋈ R530, R531 CONFIRMATION METHOD (HOLD-DOWN CONFIRMATION) AND READJUSTMENTS

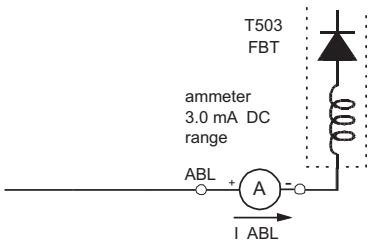
Always perform the following adjustments when replacing the following components marked with a ◪ mark on the schematic diagram:

Part Replaced (◪)	Adjustment (⋈)
A BOARD: C531, C532, D302, D519, D520, D521, IC355, IC501, Q301, R356, R359, R361, R529, R530, R531, R532, R533, R550, T503 GA BOARD IC6003, R6088	A BOARD: R530, R531

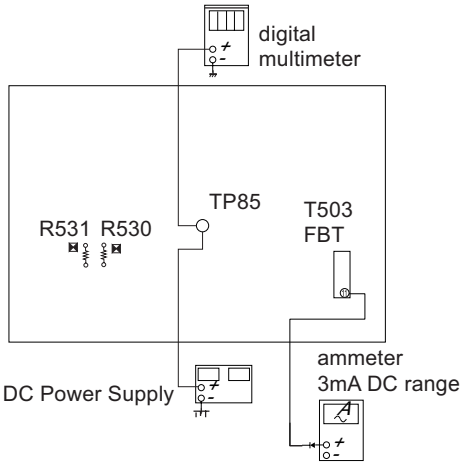
PREPARATION BEFORE CONFIRMATION

1. Turn the POWER switch ON.
2. Input a white signal and set the PICTURE and BRIGHT controls to maximum.
3. Confirm that the voltage of more than 23.0 VDC appears between TP85 and ground on the A Board.
4. Using a Variac, apply AC input voltage: 120 ± 2.0 VAC.
5. Input a white signal and verify that the I ABL is within the sepcified range: 1730.0 ± 100µA, +B = 135.0 ± 1.0 V DC.

   At AC input: 120.0 ± 2.0 V AC.



6. Record the voltage between TP 85 and ground.
7. Using an external DC power supply, apply voltage between TP85 and ground. Increase the voltage gradually and confirm that the hold down works (raster disappears) at lower than the voltage recorded in Step 6.



Lower than 24.78 ± (-0.1) V DC.

At AC input 120.0 ± 2.0 V AC.

8. A BOARD - CONDUCTOR SIDE: Confirm that a voltage appears between TP85 and ground of more than 21.0 V DC.

3-2. B+ VOLTAGE CONFIRMATION AND ADJUSTMENT

Always perform the following adjustments when replacing the following components, which are marked with ◪ on the schematic diagram on the GA Board:

GA BOARD:	IC6003, R6088

1. Using a Variac, apply AC input voltage: 130 ± 2.0 VAC
2. Input a monoscope signal.
3. Set the PICTURE control and the BRIGHT control to initial reset value.
4. Confirm the voltage of GA Board CN6007 between pin (1) to ground is less than 135.0 ± 1.5 V DC.
5. If step 4 is not satisfied, replace the R6088 on GA Board and repeat the above steps.

SECTION 4: CIRCUIT ADJUSTMENTS

ELECTRICAL ADJUSTMENTS BY REMOTE COMMANDER

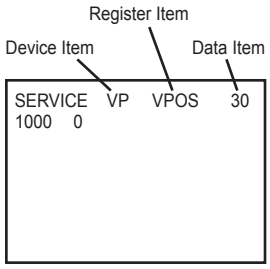
Use the Remote Commander (RM-Y171) to perform the circuit adjustments in this section.

Test Equipment Required: 1. Pattern generator 2. Frequency counter 3. Digital multimeter 4. Audio oscillator

4-1. SETTING THE SERVICE ADJUSTMENT MODE

1. Standby mode (Power off).
2. Press the following buttons on the remote commander within a second of each other:
   DISPLAY → Channel 5 → Sound Volume + → Power

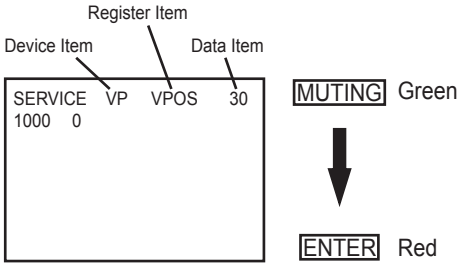
SERVICE ADJUSTMENT MODE IN



3. The CRT displays the item being adjusted.
4. Press 2 or 5 on the Remote Commander to select the device item.
5. Press 1 or 4 on the Remote Commander to select the item.
6. Press 3 or 6 on the Remote Commander to change the data.
7. To recover the latest values, press 0 then ENTER.
8. Press MUTING then ENTER to write into memory**.

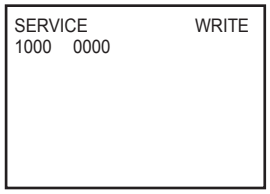
Note: If the NVM is replaced, perform this test and reset. Then download from microprocessor to NVM to prevent loss of picture.

SERVICE ADJUSTMENT MODE MEMORY



9. Press 8 then ENTER on the Remote Commander to initialize.

Note: Carry out this step when adjusting IDs 0 to 4 and when replacing IC102.



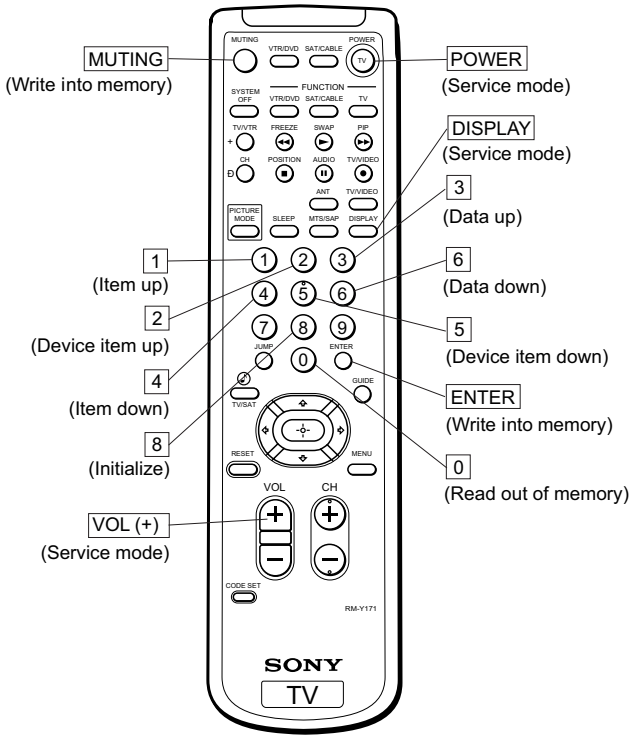
Factory original setting

10. Turn set off and on to exit.

4-2. MEMORY WRITE CONFIRMATION METHOD

1. After adjustment, pull out the plug from the AC outlet, then replace the plug in the AC outlet again.
2. Turn the power switch ON and set to Service Mode.
3. Call the adjusted items again to confirm they were adjusted.

4-3. REMOTE ADJUSTMENT BUTTONS AND INDICATORS



RM-Y171

** **WARNING: Do NOT turn off the power or remove the AC cord immediately after pressing MUTING then ENTER. Wait at least 10 seconds**

SERVICE DATA

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data		Average Data	
					NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4	NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4
		VP CXA2135S						
1	HPOS	Horizontal Position Adjust	0-31	Fix	7		7	
2	HSIZ	Horizontal Amp Adjust	0-31	Fix	10		10	
3	VBOW	VRT Line Bowing Adjust	0-15	Fix	6	6	6	6
4	VANG	VRT Line Bow Slant Adjust	0-15	Fix	5	5	5	5
5	TRAP	Horizontal Trapezoid Adjust	0-15	Fix	6	6	6	6
6	PAMP	Horizontal Pin Distort Adjust	0-63	Fix	32		32	
7	UCPN	Upper Pin	0-63	Fix	36		36	
8	LCPN	Lower Pin	0-63	Fix	36		36	
9	VSIZ	Vertical Amplitude Test	0-63	Fix	0		0	
10	VPOS	Vertical Position Test	0-63	Fix	31		31	
11	VLIN	Vertical Linearity Adjust	0-15	Fix	7		7	
12	VSCO	S-Correction	0-15	Fix	7		7	
13	VZOM	16:9 CRT Z Mode On/Off	0,1	Fix	0	0	0	0
14	EHT	VRT High Volt Correction	0-15	Fix	4	4	4	4
15	ASP	Aspect Ratio Control	0-63	Fix	47	47	47	47
16	SCRL	16:9 CRT Z Mode Tran Scroll	0-63	Fix	31	31	31	31
17	HBSW	HBLK SW	0,1	Fix	1	1	1	1
18	LBLK	Left Screen H Blk Control	0-15	Fix	15	15	15	15
19	RBLK	Right Screen H Blk Control	0-15	Fix	0	0	0	0
20	HDW	H Drive Pulse Width	0,1	Fix	0	0	1	1
21	EWDC	EW/DC Adjust	0,1	Fix	0	0	0	0
22	LVLN	Screen Bottom VRT Lin Adjust	0-15	Fix	0	0	0	0
23	UVLN	Screen Top VRT Lin Adjust	0-15	Fix	0	0	0	0
24	RDRV	R Output Drive Control	0-63	*Adj*	31	31	31	31
25	GDRV	G Output Drive Control	0-63	*Adj*	31	31	31	31
26	BDRV	B Output Drive Control	0-63	*Adj*	31	31	31	31
27	RCUT	R Output Cutoff Control	0-15	*Adj*	7	7	7	7
28	GCUT	G Output Cutoff Control	0-15	*Adj*	7	7	7	7
29	BCUT	B Output Cutoff Control	0-15	*Adj*	7	7	7	7
30	RDR4	Video 4 R Output Drive Control	0-63	*Adj*	31	31	31	31
31	GDR4	Video 4 G Output Drive Control	0-63	*Adj*	31	31	31	31
32	BDR4	Video 4 B Output Drive Control	0-63	*Adj*	31	31	31	31
33	RCU4	Video 4 R Output Cutoff Control	0-15	*Adj*	7	7	7	7
34	GCU4	Video 4 G Output Cutoff Control	0-15	*Adj*	7	7	7	7
35	BCU4	Video 4 B Output Cutoff Control	0-15	*Adj*	7	7	7	7
36	SHUE	Sub Hue	0-31	*Adj*	7	7	15	15
37	SCOL	Sub Color	0-31	*Adj*	15		15	
38	SBRT	Sub Brightness	0-63	Fix	15	15	15	15
39	RON	R Output On/Off	0,1	Fix	1	1	1	1
40	GON	G Output On/Off	0,1	Fix	1	1	1	1
41	BON	B Output On/Off	0,1	Fix	1	1	1	1
42	AXPL	Axis Pal	0,1	Fix	0	0	0	0
43	CBPF	Chroma BPF On/Off	0,1	Fix	1		1	
44	COFF	Color On/Off	0,1	Fix	0	0	0	0
45	KOFF	Set Color Killer	0,1	Fix	0	0	0	0
46	SSHP	Sub Sharpness	0-15	Fix		7		7
47	SHPF	Sharpness Circuit F0	0,1	Fix		1		1
48	PREL	Pre/Over-Shoot Switching	0,1	Fix	1	1	1	1
49	Y-DC	DC Trans Radio Switching	0,1	Fix	1	1	1	1
50	ABLM	ABL Mode Switching	0,1	Fix	1	1	1	1
51	YDEL	Y Delay Time Control	0-15	Fix	7		7	
52	NCOL	No Color ID	0,1	Fix	1	1	1	1
53	FSC	FSC Out On/Off	0,1	Fix	1	1	1	1
54	K-ID	Killer ID	0,1	Fix	1	1	1	1
55	HOSC	H VCO Oscillation Frequency	0-15	Fix	7	7	7	7
56	VSS	V Sync Slice Level	0,1	Fix	0	0	1	1
57	HSS	H Sync Slice Level	0,1	Fix	0	0	1	1
58	HMSK	H Mask	0,1	Fix	1	1	1	1
59	VTMS	Select Signal VTIM Pin	0-3	Fix	0	0	0	0

SERVICE DATA (CONT.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data		Average Data	
					NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4	NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4
		VP CXA2135S *continued*						
60	AFC	AFC Loop Gain	0-3	Fix	0		0	
61	FIFR	Field Frequency	0-3	Fix	3	3	1	1
62	REFP	REFP	0,1	Fix	0	0	0	0
63	VBSW	VBW	0-3	Fix	0	0	0	0
64	BMOF	Blk Off	0,1	Fix	0	0	0	0
65	AGN2	Aging 2	0,1	Fix	0	0	0	0
66	YSHU	Hue for YUV Models	0-63	Fix	31	31	31	31
		AP BH3868						
67	BBLP	BBE Low Pass	0-15	Fix	0	0	5	5
68	BBHP	BBE High Pass	0-15	Fix	0	0	3	3
69	SVOL	Sub Volume	0-15	Fix	0	0	7	7
70	SBAL	Sub Balance	0-15	Fix	7	7	7	7
71	SBAS	Sub Bass	0-15	Fix	7	7	5	5
72	STRE	Sub Treble	0-15	Fix	7	7	5	5
		AP TDA7467						
73	SPCA	SRS/Space Attenuation	0-63	Fix	0	0	0	0
74	CENA	SRS/Center Attenuation	0-63	Fix	0	0	0	0
75	INPA	Input Attenuation	0-127	Fix	3	3	3	3
		3D UPD64081						
76	HHDS	HH Off	0-3	Fix	1	1	1	1
77	COUT	Gain 1/BPF On	0-3	Fix	3	3	3	3
78	YAPS	V Comp/Y Eaking On	0-3	Fix	3	3	3	3
79	NSDS	Adaptive	0-3	Fix	0	0	0	0
80	MSS	Adaptive	0-3	Fix	0	0	0	0
81	DYC	Hi Impedence	0-3	Fix	2	2	2	2
82	EXAD	Ext Ad Selected	0,1	Fix	1	1	1	1
83	PECS	Standard	0-3	Fix	0	0	0	0
84	EXCS	Use CSI Just in Case	0-3	Fix	1	1	1	1
85	CPP	VTB = 1.25 VPP	0-3	Fix	0	0	0	0
86	HDP	H Phase +/- 0µ sec	0-7	Fix	3	3	3	3
87	CDL	Y/C Delay +/- 0µ sec	0-7	Fix	4	4	4	4
88	DYCO	Y Moving Coring	0-15	Fix	2	2	2	2
89	DYGA	Y Moving Gain	0-15	Fix	10	10	10	10
90	DCCO	C Moving Coring	0-15	Fix	2	2	2	2
91	DCGA	C Moving Gain	0-15	Fix	9	9	9	9
92	YNRK	Effect Small	0,1	Fix	1	1	1	1
93	YNRI	Effect Small	0,1	Fix	0	0	0	0
94	YNRL	Noise Limit	0-3	Fix	1	1	1	1
95	CNRK	Effect Small	0,1	Fix	1	1	1	1
96	CNRI	Effect Small	0,1	Fix	0	0	0	0
97	CNRL	CNR Limit	0-3	Fix	1	1	1	1
98	ID1O	ID 1 Through	0,1	Fix	0	0	0	0
99	ID1W	4:03	0,1	Fix	0	0	0	0
100	ID1N	Normal	0,1	Fix	0	0	0	0
101	CLK	Low Fix	0,1	Fix	1	1	1	1
102	ST1S	Monitor Out	0-3	Fix	0	0	0	0
103	ST0S	Monitor Out	0-3	Fix	1	1	1	1
104	WSC	Coring	0-3	Fix	1	1	1	1
105	VTRH	H Non Standard DET	0-3	Fix	1	1	1	1
106	VTRR	H Non Standard DET	0-3	Fix	1	1	1	1
107	LDSR	Frame	0-3	Fix	2	2	2	2
108	PWRE	PWRE	0,1	Fix	0	0	0	0
109	PDRE	PDRE	0-7	Fix	4	4	4	4
110	PBRE	PBRE	0-15	Fix	8	8	8	8
111	VAPG	V Apacon Gain	0-7	Fix	3	3	3	3
112	VAPI	V Apacon	0-31	Fix	10	10	10	10
113	TEST	Test	0,1	Fix	0	0	0	0
114	YPFT	Y Peaking	0-3	Fix	3	3	3	3

SERVICE DATA (CONT.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data		Average Data	
					NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4	NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4
		3D UPD64081 *continued*						
115	YPFG	Y Peaking Gain	0-15	Fix	10	10	10	10
116	V1PS	Line Comb Dot H	0-3	Fix	2	2	2	2
117	VEGS	Line Comb Dot V	0-3	Fix	2	2	2	2
118	CC3N	C Width	0,1	Fix	0	0	0	0
119	C0HS	C Delay On	0,1	Fix	0	0	0	0
120	CLPH	Y-Ad Clamp Test	0,1	Fix	0	0	0	0
121	SEL2	DC Sensitivity Small	0,1	Fix	0	0	0	0
122	SEL1	DY Sensitivity Small	0,1	Fix	0	0	0	0
123	YHCO	Coring Small	0-3	Fix	2	2	1	1
124	YPCO	Coring On	0,1	Fix	0	0	0	0
125	ED20	Standard	0,1	Fix	1	1	1	1
126	OVST	Standard	0,1	Fix	0	0	0	0
127	CSHD	Standard	0,1	Fix	0	0	0	0
128	KCTT	Standard	0-3	Fix	0	0	0	0
129	SHT1	Standard	0,1	Fix	0	0	0	0
130	SHT0	Standard	0,1	Fix	0	0	0	0
131	VCT	Standard	0,1	Fix	0	0	0	0
132	OTT	Standard	0,1	Fix	0	0	0	0
133	CGAT	Standard	0,1	Fix	0	0	0	0
134	CGGT	Standard	0,1	Fix	0	0	0	0
135	CGFT	Standard	0,1	Fix	0	0	0	0
136	CGT	Standard	0,1	Fix	0	0	0	0
137	HPLL	Standard	0,1	Fix	1	1	1	1
138	BPLL	Burst PLL Fast	0,1	Fix	0	0	0	0
139	FSCF	Burst Gain Large	0,1	Fix	0	0	0	0
140	PLLF	PLL Loop Gain Large	0,1	Fix	1	1	1	1
141	KILR	Killer Lever	0-15	Fix	3	3	3	3
142	HSSL	H Slice Level	0-15	Fix	12	12	12	12
143	VSSL	V Slice Level	0-15	Fix	8	8	8	8
144	BGPS	Start Burst Gate	0-15	Fix	4	4	4	4
145	BGPW	Width of Burst Gate	0-15	Fix	10	10	10	10
146	ADCL	ADC Clock	0-3	Fix	3	3	3	3
147	ADPD	Adc Power Down On	0,1	Fix	1	1	1	1
148	ADLT	Standard	0,1	Fix	0	0	0	0
149	NRZO	Check On	0,1	Fix	0	0	0	0
150	FSCO	Level Check On	0,1	Fix	0	0	0	0
151	VTVH	Normal	0-3	Fix	0	0	0	0
152	TST2	Standard	0,1	Fix	0	0	0	0
153	HMEM	Use CSI Just in Case	0,1	Fix	1	1	1	1
154	HINV	Polarity of Reset	0,1	Fix	1	1	1	1
155	HTMG	Field Memory Address	0,1	Fix	0	0	0	0
156	HCP	HH Carrier Phase	0-15	Fix	7	7	7	7
157	TST3	Test	0,1	Fix	0	0	0	0
158	HHMG	HH Moving Gain	0,1	Fix	1	1	1	1
159	HHFG	HH Off	0-3	Fix	0	0	0	0
160	HHTG	Max HH	0-15	Fix	5	5	5	5
		PI TA1226N						
161	SHPR	Picture Improvement Sharpness	0-127	Fix	59	59	59	59
162	BLAD	Picture Improvement Black Area Det.	0-3	Fix	0	0	0	0
163	SRTS	Picture Improvement SRT Start Pos	0-3	Fix	3	3	3	3
164	YNR	Picture Improvement YNR	0,1	Fix	1	1	1	1
165	GIRE	Picture Improvement Gamma Start	0-3	Fix	3	3	3	3
166	DAC1	Picture Improvement DAC1	0,1	Fix	1	1	1	1
167	DAC2	Picture Improvement DAC2	0,1	Fix	0	0	0	0
168	GCUR	Picture Improvement Gamma Curve	0,1	Fix	0	0	0	0
169	BLKC	Picture Improvement Black Compen.	0,1	Fix	1	1	1	1
170	TEST	Picture Improvement Test	0-3	Fix	3	3	3	3
171	RS	Picture Improvement RS	0-7	Fix	0	0	0	0
172	RTC	Picture Improvement RTC	0-7	Fix	4	4	4	4

SERVICE DATA (CONT.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data		Average Data	
					NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4	NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4
		DC CXA2060						
173	DCSF	Dynamic Convergence DC Shift	0-63	Fix	32	32	32	32
174	UYBW	Dynamic Convergence Upper YBOW	0-63	Fix	31	31	31	31
175	LYBW	Dynamic Convergence Lower YBOW	0-63	Fix	31	31	31	31
176	HAMP	Dynamic Convergence H. Amp	0-63	Fix	23	23	23	23
177	UCBW	Dynamic Convergence H. CBOW	0-63	Fix	14	14	14	14
178	LCBW	Dynamic Convergence L. CBOW	0-63	Fix	14	14	14	14
179	UMBH	Dynamic Convergence U. MBH	0-63	Fix	15	15	15	15
180	LMBH	Dynamic Convergence L. MBH	0-63	Fix	15	15	15	15
181	PWM	Dynamic Convergence PWM	0-63	Fix	63	63	63	63
182	HTLT	Dynamic Convergence H. Tilt	0-63	Fix	63	63	63	63
183	UTLD	Dynamic Convergence U. Tilt	0-63	Fix	63	63	63	63
184	LTLT	Dynamic Convergence L. Tilt	0-63	Fix	63	63	63	63
185	HDTY	Dynamic Convergence H. Duty	0-3	Fix	3	3	3	3
186	TOFF	Dynamic Convergence Tilt Off	0,1	Fix	1	1	1	1
187	DAC0	Dynamic Convergence DAC0	0-255	Fix	255	255	255	255
188	DAC1	Dynamic Convergence DAC1	0-255	Fix	255	255	255	255
		SP SDA9288						
189	PYSD	P in P (Seimens) YS Delay	0-15	Fix	2	2	2	2
190	PIPH	P in P (Seimens) H-Position	0-127	Fix	78	78	78	78
191	PIPV	P in P (Seimens) V-Position	0-63	Fix	18	18	18	18
192	PYDL	P in P (Seimens) Y-Delay	0-7	Fix	0	0	0	0
193	PIFX	P in P Inset Fixed	0-3	Fix	0	0	0	0
194	PPFX	P in P Parent Fixed	0-3	Fix	0	0	0	0
195	PCLI	P in P CLISW	0,1	Fix	1	1	1	1
196	PAMS	P in P AMSEC	0,1	Fix	0	0	0	0
197	PHDL	P in P (Seimens) H-Pulse Delay (Ins)	0-15	Fix	15	15	15	15
198	PMVD	P in P (Seimens) V-Pulse Delay (Mn)	0-31	Fix	11	11	11	11
199	PIVD	P in P (Seimens) V-Pulse Delay (Ins)	0-31	Fix	18	18	18	18
200	PCON	P in P (Seimens) Contrast Lvl (Ins)	0-15	Fix	3	3	3	3
201	FRMY	P in P (Seimens) Frame Y	0-15	Fix	10	10	10	10
202	CHRI	P in P (Seimens) Chroma Input Pol.	0,1	Fix	0	0	0	0
203	CHRO	P in P (Seimens) Chroma Output Pol.	0,1	Fix	0	0	0	0
204	MAT0	P in P (Seimens) MAT0	0,1	Fix	1	1	1	1
205	MAT1	P in P (Seimens) MAT1	0,1	Fix	0	0	0	0
206	MAT2	P in P (Seimens) MAT2	0,1	Fix	1	1	1	1
207	IPER	P in P (Seimens) Pedestal R-Y	0-15	Fix	0	0	0	0
208	IPEB	P in P (Seimens) Pedestal B-Y	0-15	Fix	0	0	0	0
209	PCPS	P in P (Seimens) CLP & HSIDEL	0,1	Fix	0	0	0	0
210	PCPF	P in P (Seimens) CLP Cycles	0,1	Fix	0	0	0	0
211	PSEL	P in P (Seimens) SELDOWN	0,1	Fix	1	1	1	1
212	PPLL	P in P (Seimens) PLL Filter	0-3	Fix	0	0	0	0
213	PVNR	P in P (Seimens) VSP Pulse Noise R.	0,1	Fix	0	0	0	0
		IC CXA2019						
214	IDPX		0,1	Fix	0	0	0	0
215	ICOL	Color	0-63	Fix	38	38	38	38
216	ISHP	Sharpness	0-15	Fix	10	10	10	10
217	ISCO	Sub Chroma Decoder Sub Cont	0-15	Fix	7	7	7	7
218	ISCL	Sub Chroma Decoder Sub Color	0-15	Fix	8		8	
219	ISHU	Sub Chroma Decoder Sub Hue	0-15	Fix	7	7	7	7
220	ITOT	Sub Chroma Decoder Tot On	0,1	Fix	0	0	0	0
221	ITRP	Sub Chroma Decoder Trap On	0,1	Fix	1	1	1	1
222	IAFC	AFC	0-3	Fix	1		1	
223	ITRA	Sub Chroma Decoder CTRAP ADJ	0-15	Fix	7		7	
224	ICD2	Sub Chroma Decoder CD Mode2	0,1	Fix		1		1
225	ISF0	SHP-F0	0,1	Fix	1	1	1	1
226	IYDR	Sub Chroma Decoder Y Drive	0-31	Fix	24	24	24	24
227	IVPE	Sub Chroma Decoder V Ped	0-15	Fix	0	0	0	0
228	IUPE	Sub Chroma Decoder U Ped	0-15	Fix	0	0	0	0
229	IRVP	Sub Chroma Decoder RV Ped	0-15	Fix	9	9	9	9
230	IRUP	Sub Chroma Decoder RU Ped	0-15	Fix	7	7	7	7

SERVICE DATA (CONT.)

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data		Average Data	
					NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4	NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4
		IC CXA2019 *continued*						
231	IDCT	Sub Chroma Decoder DC Tran	0-7	Fix	4	4	6	6
232	IRYD	Sub Chroma Decoder RY Drive	0-31	Fix	19	19	19	19
233	IPRE	Sub Chroma Decoder Pre Over	0-3	Fix	1	1	1	1
234	IRUD	Sub Chroma Decoder RU Drive	0-31	Fix	8	8	8	8
235	IRVD	Sub Chroma Decoder RV Drive	0-31	Fix	8	8	8	8
236	IDLV	Sub Chroma Decoder Delay	0-3	Fix	0		0	
237	ISCR	Sub Chroma Decoder SCP BGR	0-3	Fix	1	1	1	1
238	ISCF	Sub Chroma Decoder SCP BGF	0-3	Fix	1	1	1	1
		DA CXA1315						
239	IDPX	D/A Converter N-S Correction	0-63	Fix	32	32	32	32
240	ICOL	Color	0-255	Fix	120		120	
241	ISHP	Sharpness	0-255	Fix	120	120	120	120
242	ISCO	Sub Chroma Decoder Sub Cont	0-31	Fix	15		15	
243	ISCL	Sub Chroma Decoder Sub Color	0-31	Fix	1	1	15	15
		D1 CXD2085						
244	XJGL	XJGLK	0,1	Fix	0	0	0	0
245	LNJ1	LNJ1	0,1	Fix	0	0	0	0
		CC CXP85856A						
246	CRIL	CCD CRI Pulse Compare Data Low	0-15	Fix	2	2	2	2
247	CFLD	CCD Caption Fixed-Field Count	0-15	Fix	5	5	5	5
248	CCDI	CCD No CCD Interrupt	0-7	Fix	3	3	3	3
249	CRIP	CCD CRI & Parity Error	0-7	Fix	4	4	4	4
250	CRIT	CCD CRI Time Constant	0-3	Fix	0	0	0	0
251	CSB1	CCD Sync Slice Bias 1	0-3	Fix	3	3	3	3
252	CSB2	CCD Sync Slice Bias 2	0-7	Fix	4	4	4	4
253	CREP	CCD CRI Signal End Position	0-256	Fix	142	142	142	142
254	CDSD	CCD Data Start Delay	0-31	Fix	8	8	8	8
255	CCDS	CCD Caption Data Threshold	0-31	Fix	9	9	9	9
256	CHMK	CCD P8-HMASK	0-63	Fix	42	42	42	42
257	CHSY	CCD P8-HSYC	0-255	Fix	136	136	136	136
		OP CXP85856A						
258	DISP	OSD Position	0-63	Fix	1	1	1	1

No.	Register Name	Description	Data Range	Adj/Fix	Initial Data		Average Data		ID
					NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4	NTSC PAL-M PAL-N	TV/AUX S/VIDEO 1-3 VIDEO 4	
		ID MAP							
259	IDCT	NVM ID 0	0-7	Fix by model	89	89	63	63	31
260	IRYD	NVM ID 1	0-31	Fix by model	55	55	55	55	63
261	IPRE	NVM ID 2	0-3	Fix by model	175	175	175	175	175
262	IRUD	NVM ID 3	0-31	Fix by model	96	96	64	64	192
263	IRVD	NVM ID 4	0-31	Fix by model	203	203	251	251	251
264	IDLV	NVM ID 5	0-3	Fix by model	181	181	181	181	181
265	ISCR	NVM ID 6	0-3	Fix by model	6	6	6	6	6
266	ISCF	NVM ID 7	0-3	Fix by model	9	9	0	0	112

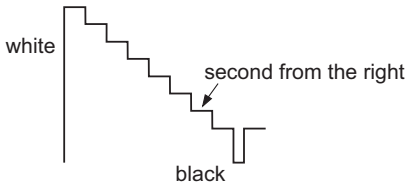
SERVICE	IDO	WRITE

Note: Items 1-266 show adjustment order

4-4. A BOARD ADJUSTMENTS

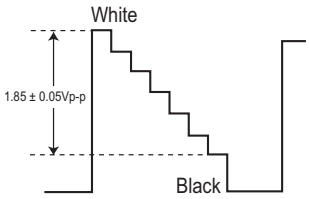
SUB BRIGHT ADJUSTMENT

1. Set to Service Adjustment Mode.
2. Input a grey scale pattern signal.
3. Set the PICTURE to minimum, and BRIGHT to normal.
4. Select SBRT with 1 and 4 .
5. Adjust SUB BRIGHT level with 3 and 6 so that the stripe second from the right is faintly visible.
6. Write into memory by pressing MUTING then ENTER.



SUB CONTRAST ADJUSTMENT (RDRV)

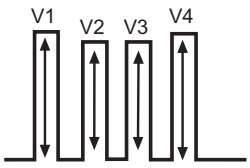
1. Input a 75% color-bar signal.
2. Set to: VIDEO mode = Standard, COLOR = Minimum, PICTURE = 100%, GON = 0 (OFF), BON = 0 (OFF)
3. Set to Service Adjustment Mode and connect an oscilloscope to pin (1) of CN351 on the A Board.
4. Set RDRV with 1 and 4.
5. Adjust with 3 and 6 for: 1.85 ± 0.05 Vp-p.
6. Write into memory by pressing MUTING then ENTER.



SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL, 4SHU, 4COL)

Note: SCOL and SHUE are for all other inputs (NTSC/PAL M/PAL N)
4SHU and 4COL are for Video 4 input (NTSC/PAL M/PAL N)

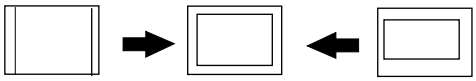
1. Input a 75% color-bar signal.
2. Set to Service Adjustment Mode and set: VIDEO mode = Standard, PICTURE = 100%, COLOR = 50%, HUE = 50%.
3. Connect an oscilloscope to Pin (3) of CN351 on the A Board.
4. Select SHUE and SCOL with 1 and 4.
5. Adjust with 3 and 6 for the V1 = V4 (SCOL) and V2 = V3 (SHUE).
6. Write SHUE data one step down from even condition to NVM. SCOL is adjusted by SHUE compensation.
7. Write into memory by pressing MUTING then ENTER.
8. Repeat Steps 1-7 for 4SHU and 4COL.



V. SIZE ADJUSTMENT (VSIZ)

1. Input a monoscope signal.
2. Set to Service Adjustment Mode.
3. Select VSIZ with 1 and 4.
4. Adjust with 3 and 6 for the best vertical size.
5. Write into memory by pressing MUTING then ENTER.

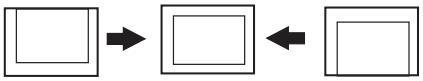
V. SIZE



V. POSITION ADJUSTMENT (VPOS)

1. Input a monoscope signal.
2. Set to Service Adjustment Mode.
3. Select VPOS with 1 and 4.
4. Adjust with 3 and 6 for the best vertical center.
5. Write into memory by pressing MUTING then ENTER.

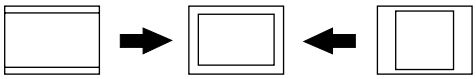
V. POSITION



H. SIZE ADJUSTMENT (HSIZ)

1. Input a monoscope signal.
2. Set to Service Adjustment Mode.
3. Select HSIZ with 1 and 4.
4. Adjust with 3 and 6 for the best horizontal size.
5. Write into memory by pressing MUTING then ENTER.

H. SIZE

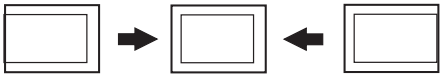


H. POSITION ADJUSTMENT (HPOS)

HPOS Range is from 0~15.

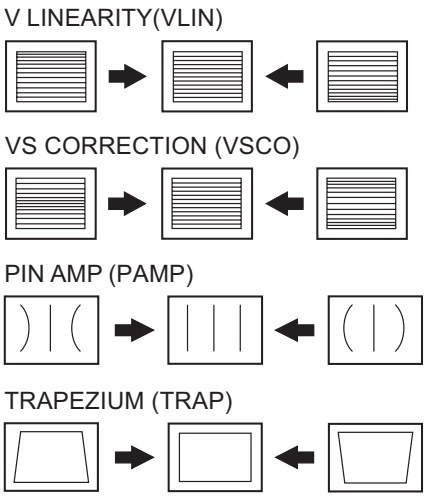
1. Input a monoscope signal.
2. Set to Service Adjustment Mode.
3. Select HPOS with 1 and 4.
4. Adjust with 3 and 6 for the best horizontal center.
5. Write into memory by pressing MUTING then ENTER.

H. POSITION



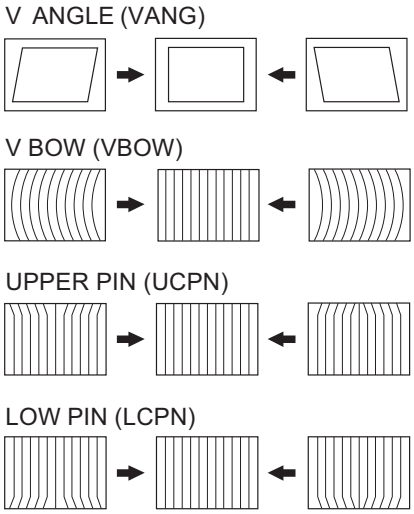
V LINEARITY (VLIN), V CORRECTION (VSCO), PIN AMP (PAMP) AND TRAPEZIUM (TRAP) ADJUSTMENTS

1. Input a cross-hatch signal.
2. Set to Service Adjustment Mode.
3. Select VLIN, VSCO, PAMP, and TRAP with 1 and 4.
4. Adjust with 3 and 6 for the best picture.
5. Write into memory by pressing MUTING then ENTER.



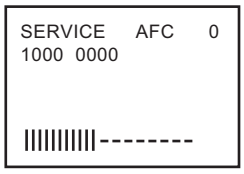
V ANGLE (VANG), V BOW (VBOW), UPPER UPPER PIN (UCPN) AND LOW PIN (LCPN) ADJUSTMENTS

1. Input a cross-hatch signal.
2. Set to Service Adjustment Mode.
3. Select VANG, VBOW, UCPN, and LCPN with 1 and 4.
4. Adjust with 3 and 6 for the best picture.
5. Write into memory by pressing MUTING then ENTER.



OSD POSITION ADJUSTMENT (DISP)

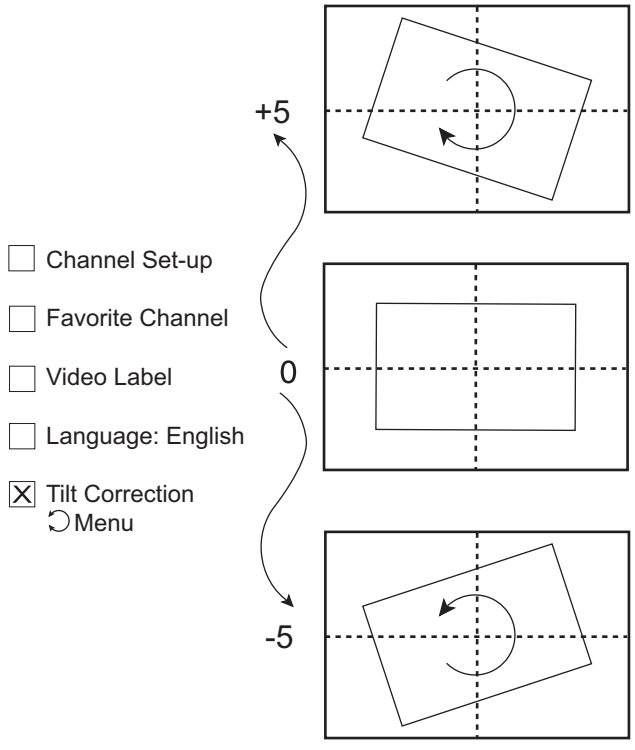
1. Input a color-bar signal.
2. Set to Service Adjustment Mode.
3. Select DISP with 1 and 4.
4. Adjust with 3 and 6 for the bar center.
5. Write into memory by pressing MUTING then ENTER.



ROTATION COIL ADJUSTMENT

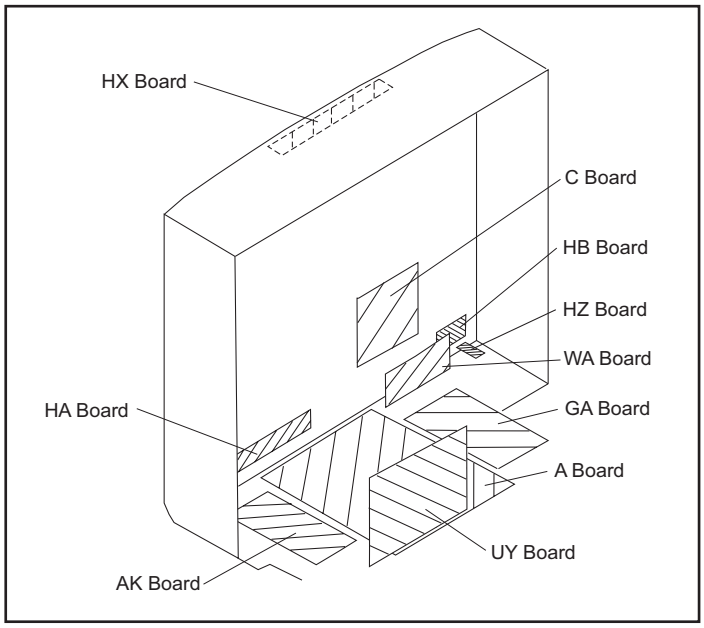
1. Input a monoscope signal.
2. Push MENU on the Remote (RM-Y171).
3. Select the “Set-up” mode.
4. Select “Tilt Correction”. Confirm that number (0) color changes to red.
5. Push ↑ (+) on the Remote. Confirm that the number increases up to +5 and the picture rotates clockwise.
6. Push ↓ (-) on the Remote. Confirm that the number decreases down to -5 and the picture rotates counter-clockwise.
7. Push ↑ (+) on the Remote. Return the value to 0.

SET-UP



SECTION 5: DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol ▬ indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

Le symbole ▬ indique une fusible a action rapide. Doit etre remplace par une fusible de meme yaleur, comme maque.

The components identified by ⋈ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be necessary, replace only with the value originally used (Refer to Safety Related Adjustments on page 12).

When replacing components identified by ◪, make the necessary adjustments as indicated. If the results do not meet the specified value, change the component identified by ⋈ and repeat the adjustment until the specified value is achieved.

When replacing the parts listed in the table below, it is important to perform the related adjustments.

Part Replaced (◪)	Adjustment (⋈)
A BOARD: C531, C532, D302, D519, D520, D521, IC355, IC501, Q301, R356, R359, R361, R529, R530, R531, R532, R533, R550, T503 GA BOARD IC6003, R6088	A BOARD: R530, R531

5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. KΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm

Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_8$ W in chip resistance.

: nonflammable resistor.

: fusible resistor.

△ : internal component.

▭ : panel designation and adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibillity.

: B+line.

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

REFERENCE INFORMATION

RESISTOR

: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
: ※	ADJUSTMENT RESISTOR

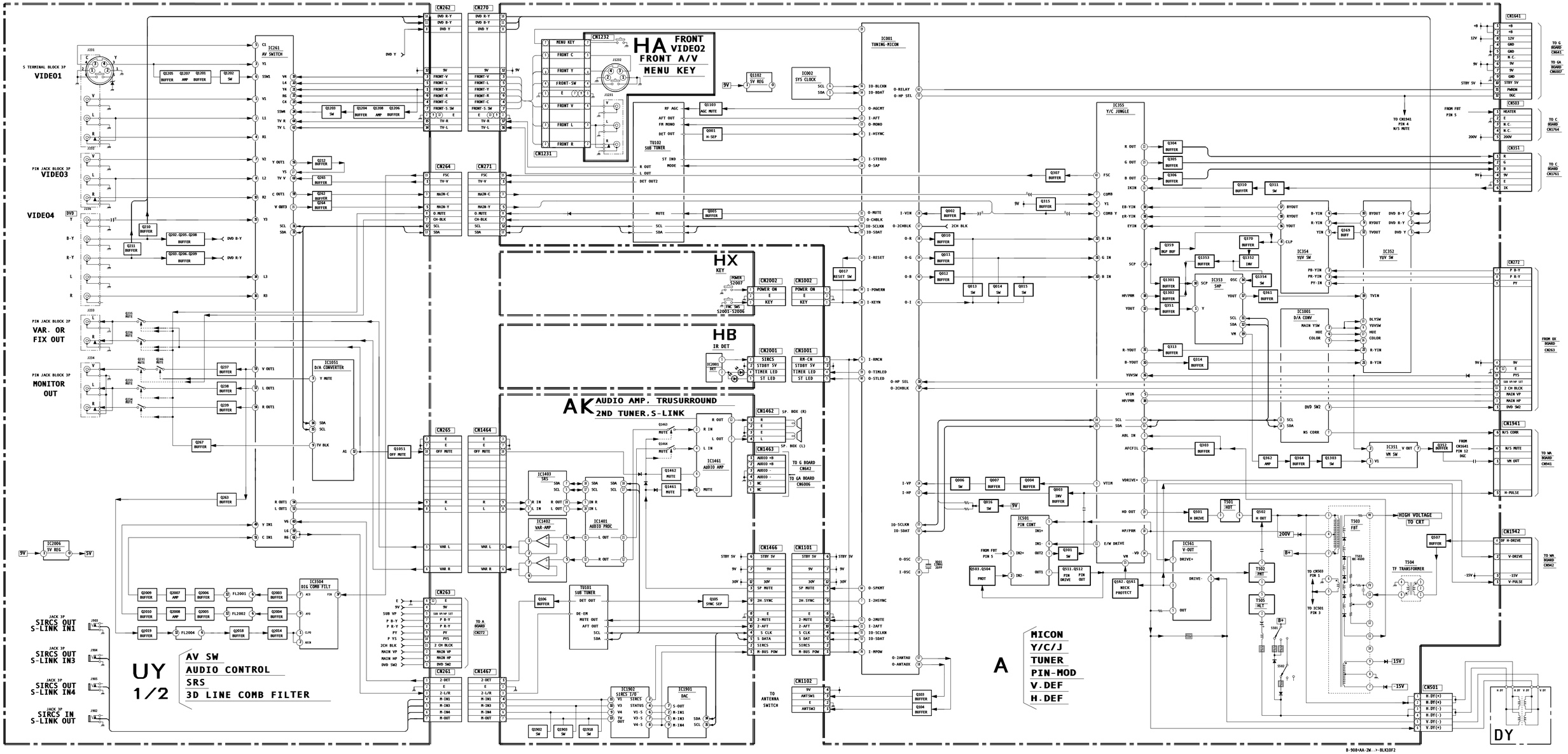
CAPACITOR

: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

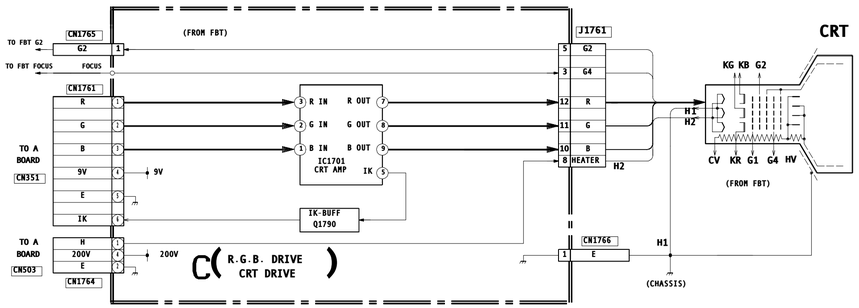
COIL

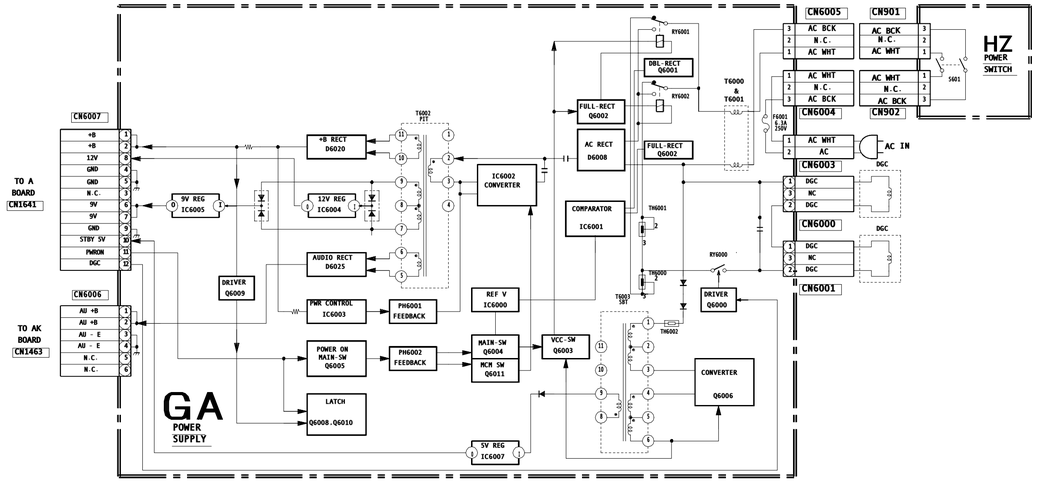
: LF-8L	MICRO INDUCTOR

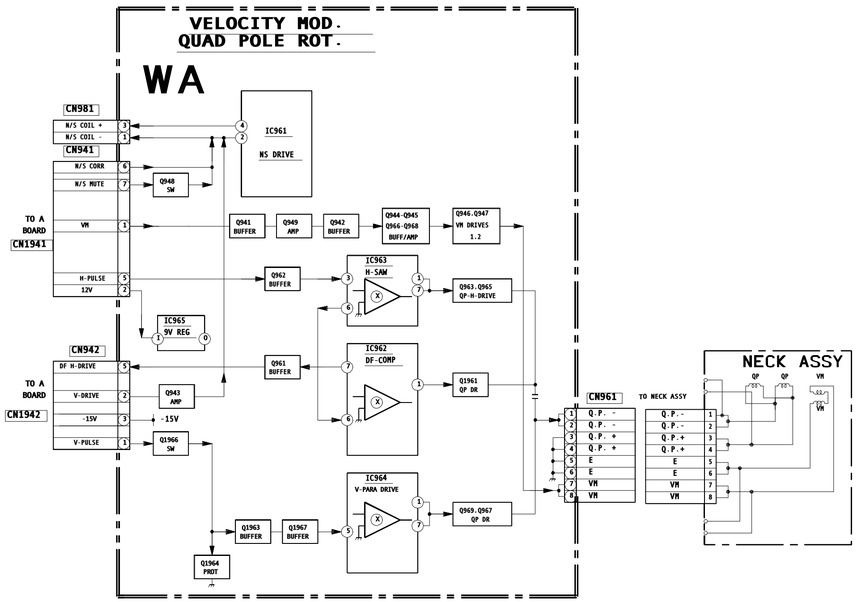
BLOCK DIAGRAM (1 OF 2)

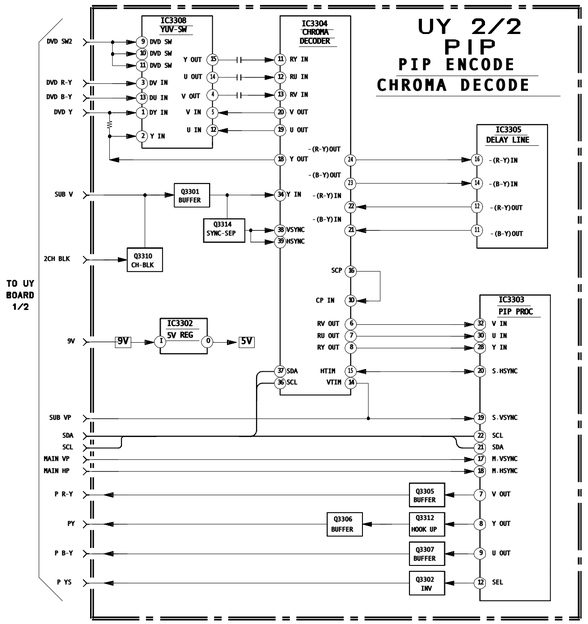


BLOCK DIAGRAM (2 OF 2)



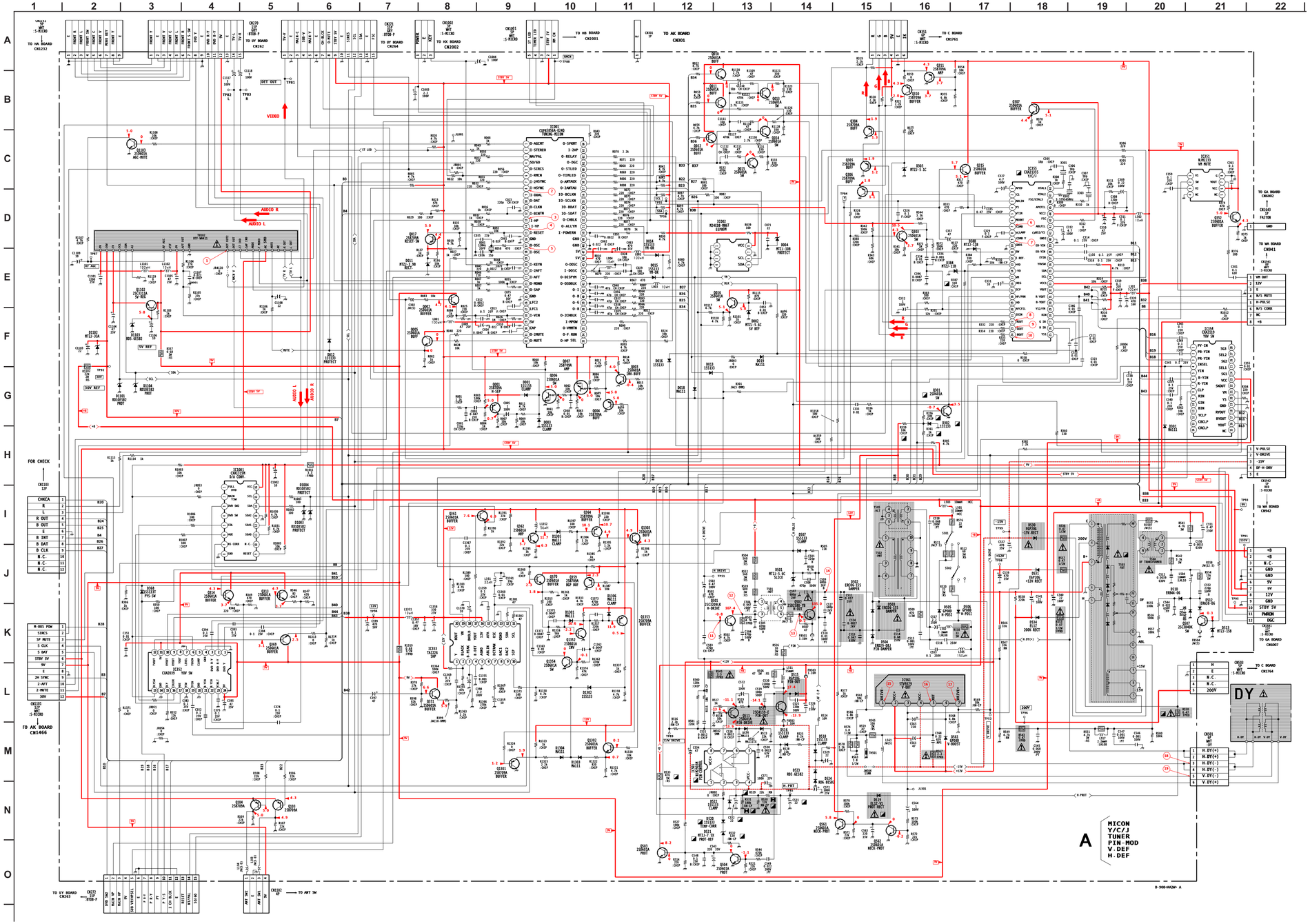




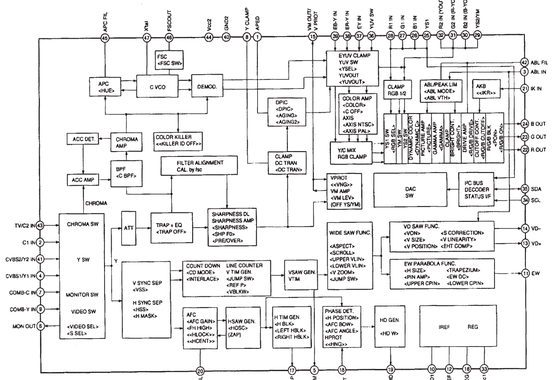


B-908<AA-2W..>-BLK2OF2

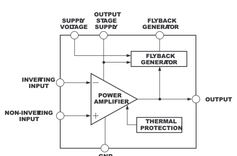
A BOARD SCHEMATIC DIAGRAM



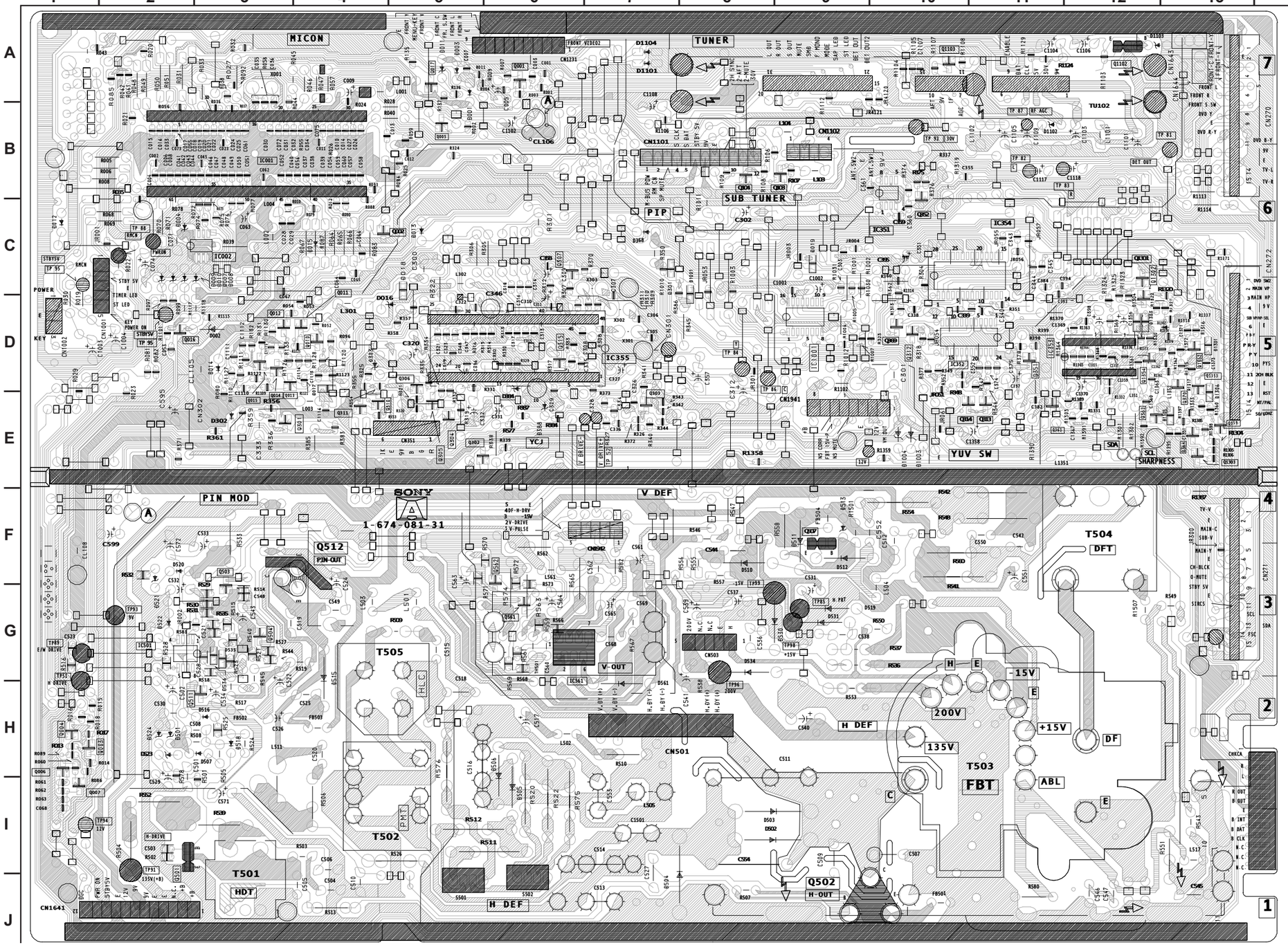
A BOARD: IC 355 CXA2135S



A BOARD: IC 561 STV9379



A [MICON/ Y/C/J /TUNER/PIN-MOD/V.DEF/H.DEF]



A BOARD LOCATOR LIST

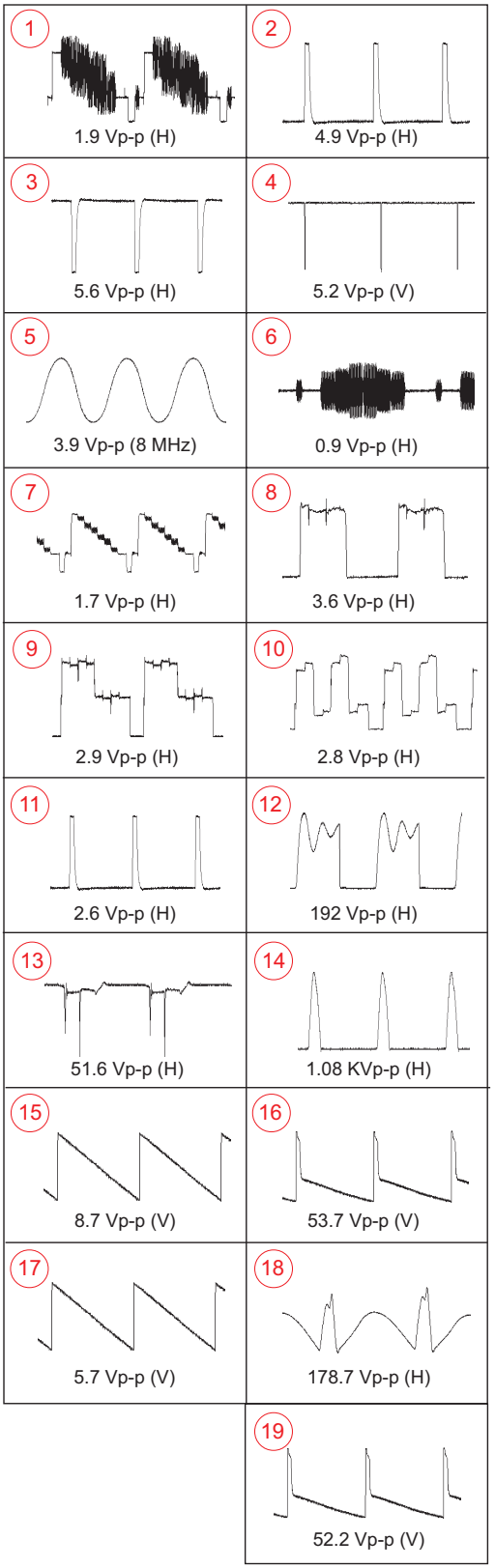
DIODE		D534	G-8	Q016	D-2
D001	A-5	D535	G-8	Q017	D-2
D002	D-2	D536	G-8	Q103	B-8
D003	A-5	D561	G-6	Q104	B-8
D004	C-2	D1003	E-9	Q301	E-3
D011	A-5	D1004	E-9	Q302	E-5
D012	C-1	D1101	A-7	Q303	E-7
D013	C-4	D1102	B-11	Q304	E-5
D014	D-3	D1103	A-12	Q305	E-5
D015	C-3	D1104	A-7	Q306	D-4
D016	D-4	D1301	D-12	Q307	C-6
D018	C-4	D1302	D-12	Q310	E-4
D019	C-8	D1303	D-11	Q311	E-4
D301	E-3	D1304	D-11	Q314	E-10
D302	E-3	D1305	D-12	Q315	E-10
D303	D-4	D1306	D-12	Q351	D-10
D368	C-7	IC		Q352	D-10
D384	D-5	IC001	B-2	Q359	D-12
D388	D-6	IC002	C-2	Q361	D-11
D501	H-2	IC351	C-9	Q362	D-11
D502	I-8	IC352	D-10	Q364	D-12
D503	I-8	IC353	D-11	Q369	D-9
D504	I-7	IC354	C-10	Q370	D-12
D505	H-5	IC355	D-5	Q501	I-2
D506	H-5	IC501	G-2	Q502	I-9
D507	H-2	IC561	G-6	Q503	F-3
D510	F-8	IC1001	D-8	Q504	G-3
D511	F-8	TRANSISTOR		Q507	F-8
D512	F-8	Q001	A-5	Q511	G-2
D513	F-8	Q002	C-4	Q512	F-3
D515	G-4	Q003	H-1	Q561	G-6
D516	H-2	Q004	H-1	Q562	F-5
D518	H-3	Q005	B-5	Q1102	A-12
D519	G-9	Q006	H-1	Q1103	A-10
D520	F-2	Q007	H-1	Q1301	D-11
D521	F-2	Q010	D-3	Q1302	D-12
D522	G-2	Q011	D-3	Q1303	E-12
D523	H-2	Q012	D-3	Q1352	D-12
D524	H-2	Q013	D-3	Q1353	D-12
D530	G-8	Q014	D-3	Q1354	D-12
D531	G-8	Q015	D-3		

A BOARD IC VOLTAGE LIST

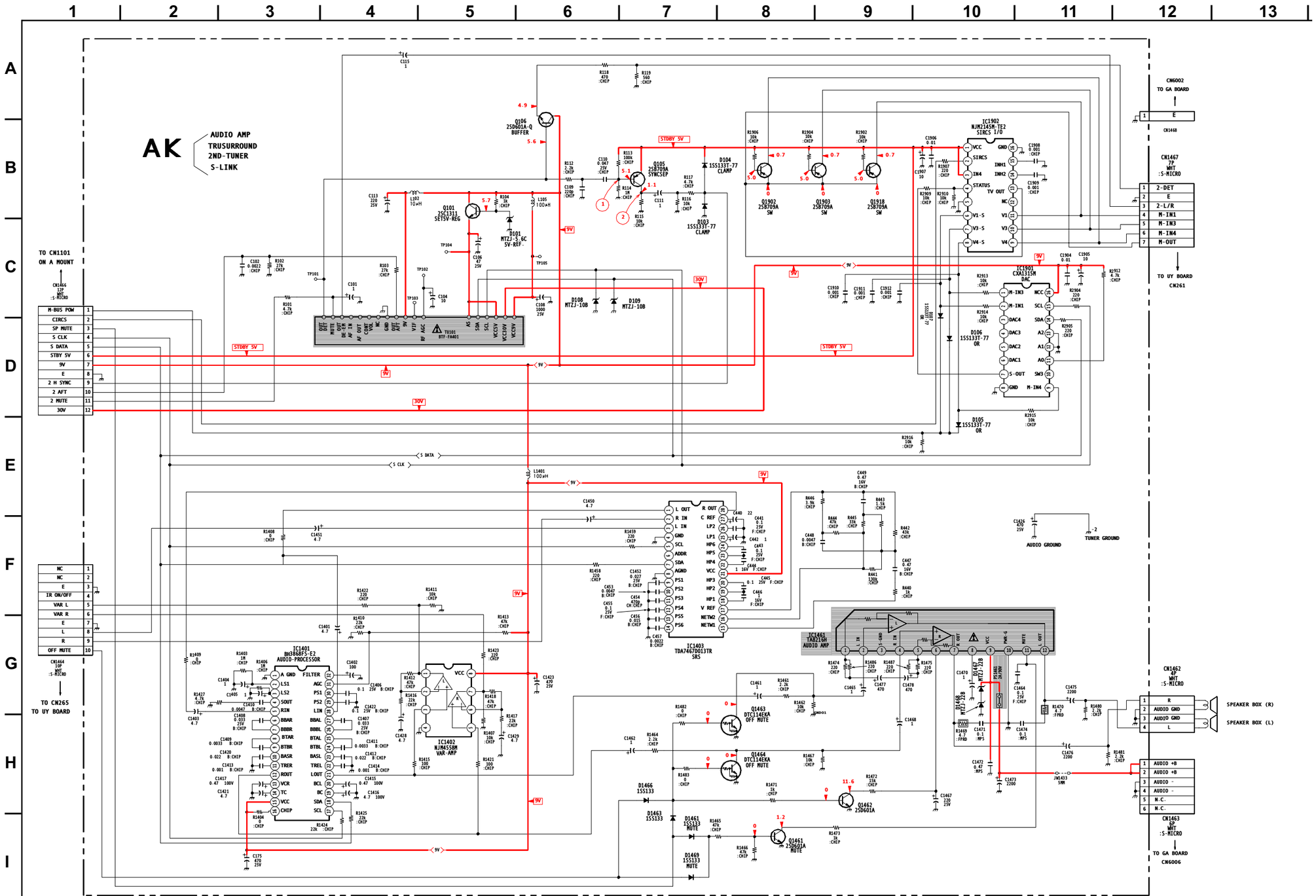
IC001		49	GND	13	0.1	15	N/C	35	4.7
pin	volt	50	5.0	14	GND	16	3.9	36	7.3
1	0	51	0	15	2.4	17	3.9	37	4.8
2	5.0	52	0	16	4.4	18	3.9	38	5.5
3	0	53	4.7	17	4.7	19	GND	39	5.5
4	0	54	4.7	18	GND	20	0	40	GND
5	N/C	55	4.7	19	6.0	21	0	41	N/C
6	3.9	56	4.7	20	GND	22	N/C	42	7.3
7	0.1	57	5.0	21	5.8	23	9.0	43	N/C
8	0	58	0	22	5.8	24	N/C	44	9.3
9	N/C	59	3.8	23	5.8	25	N/C	45	5.5
10	N/C	60	3.8	24	9.0	26	N/C	46	5.1
11	N/C	61	0	IC353		27	N/C	47	1.9
12	5.0	62	4.7	pin	volt	28	N/C	48	N/C
13	4.0	63	N/C	1	4.5	IC355		IC501	
14	5.0	64	0	2	3.7	pin	volt	pin	volt
15	5.0	IC002		3	4.9	1	3.5	1	-3.5
16	GND	pin	volt	4	4.5	2	N/C	2	8.2
17	2.5	1	GND	5	GND	3	1.5	3	8.0
18	2.5	2	GND	6	N/C	4	N/C	4	-13.8
19	5.0	3	GND	7	4.5	5	5.0	5	2.3
20	5.0	4	GND	8	N/C	6	N/C	6	2.9
21	2.0	5	4.7	9	N/C	7	4.5	7	13.6
22	2.5	6	4.7	10	1.3	8	4.8	8	14.0
23	0	7	GND	11	4.7	9	5.3	IC561	
24	0	8	5.0	12	4.7	10	GND	pin	volt
25	GND	IC351		13	GND	11	3.4	1	1.4
26	0	pin	volt	14	11.4	12	2.4	2	14.0
27	0	1	5.8	15	5.6	13	3.5	3	-11.9
28	2.3	2	0.3	16	11.7	14	3.5	4	-13.8
29	5.0	3	5.3	17	7.6	15	5.8	5	0.4
30	0	4	GND	18	1.3	16	7.6	6	14.4
31	0	5	N/C	19	3.6	17	1.2	7	1.4
32	0	6	9.4	20	2.0	18	3.5	IC1001	
33	0	7	5.0	IC354		19	1.9	pin	volt
34	N/C	8	GND	pin	volt	20	2.5	1	N/C
35	N/C	IC352		1	4.0	21	2.0	2	0.1
36	0	pin	volt	2	4.0	22	1.3	3	0.3
37	0	1	5.8	3	4.0	23	1.2	4	N/C
38	0	2	5.8	4	0.3	24	1.2	5	4.4
39	0	3	5.8	5	4.0	25	0	6	4.7
40	0	4	GND	6	4.0	26	4.7	7	4.7
41	0	5	N/C	7	4.0	27	4.7	8	GND
42	0	6	0.1	8	2.2	28	4.7	9	9.3
43	0	7	GND	9	N/C	29	N/C	10	N/C
44	4.7	8	N/C	10	N/C	30	4.3	11	9.3
45	4.7	9	3.9	11	N/C	31	4.3	12	9.3
46	4.9	10	3.9	12	N/C	32	3.7	13	GND
47	4.9	11	9.0	13	N/C	33	9.1	14	4.7
48	GND	12	3.1	14	N/C	34	4.7	15	4.7
								16	9.3

All voltages are in V

A BOARD WAVEFORMS



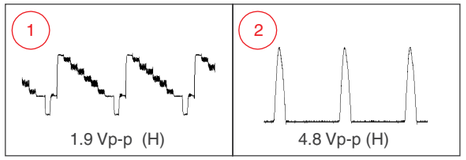
AK BOARD SCHEMATIC DIAGRAM



AK BOARD IC VOLTAGE LIST

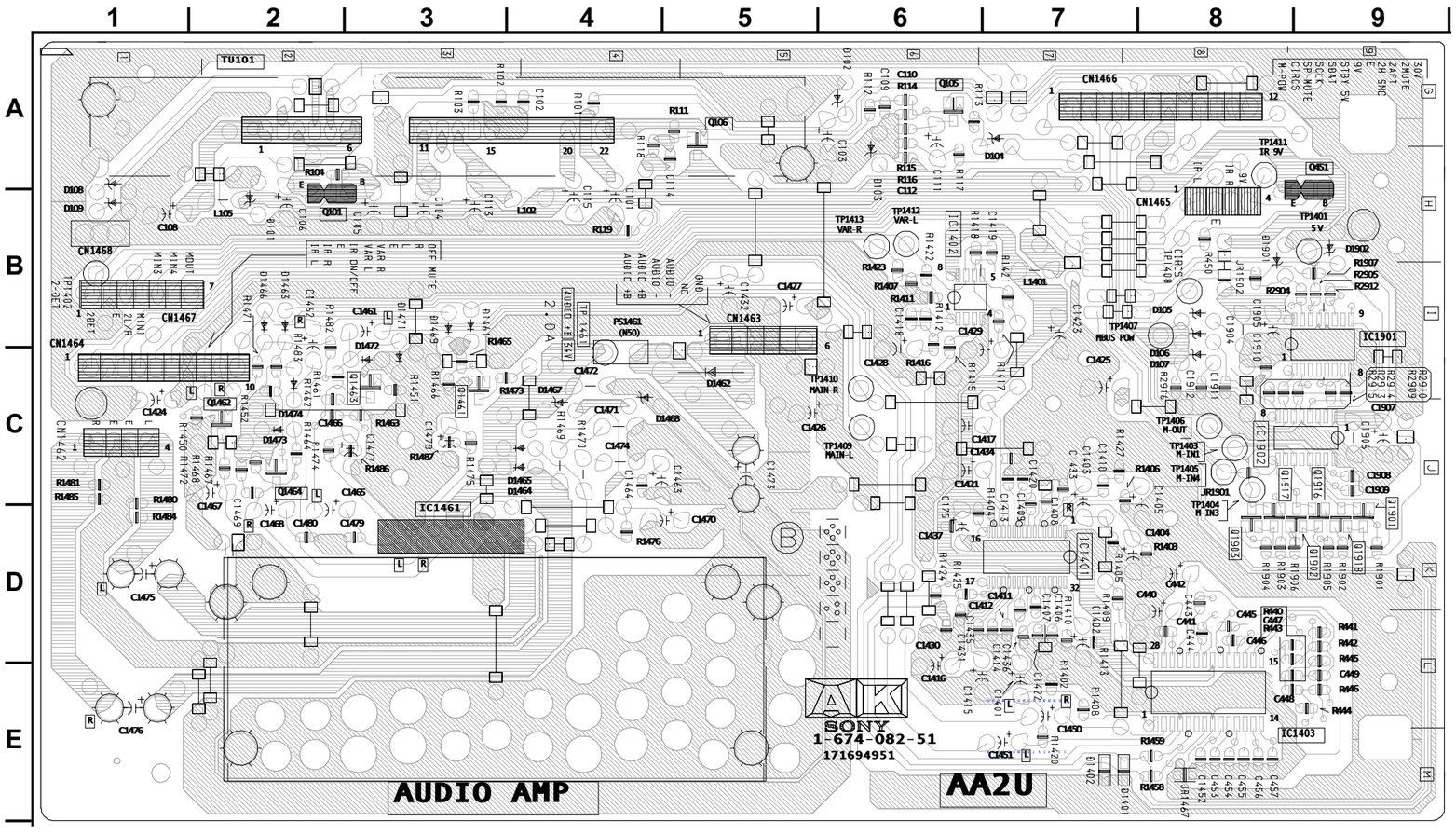
IC1401		13	0.8	27	4.6	7	4.6	11	4.6	25	4.6	9	34.5	9	0	6	0
pin	volt	14	2.0	28	4.6	8	9.2	12	4.6	26	4.6	10	0	10	N/C	7	0
1	GND	15	9.2	29	4.6	IC1403		13	4.6	27	4.6	11	0	11	9.4	8	0
2	0	16	9.2	30	4.6	pin	volt	14	4.6	28	3.9	12	9.4	12	GND	9	0.7
3	0	17	4.6	31	2.9	1	4.0	15	4.6	IC1461		IC1901		13	GND	10	0.7
4	4.6	18	4.6	32	4.6	2	4.6	16	4.6	pin	volt	pin	volt	14	4.5	11	0.7
5	4.6	19	2.0	IC1402		3	4.6	17	4.6	1	1.5	1	0	15	4.5	12	N/C
6	4.6	20	0.8	pin	volt	4	GND	18	4.6	2	0	2	0	16	9.4	13	0
7	4.6	21	4.6	1	4.6	5	4.6	19	4.6	3	N/C	3	N/C	IC1902		14	0.2
8	4.6	22	4.6	2	4.6	6	N/C	20	4.6	4	0	4	N/C	pin	volt	15	0.3
9	4.6	23	4.6	3	4.6	7	4.6	21	9.2	5	1.5	5	N/C	2	3.7	16	GND
10	4.6	24	4.6	4	GND	8	GND	22	4.6	6	6.9	6	N/C	3	5.0	All voltages are in V	
11	4.6	25	4.6	5	4.6	9	4.6	23	4.6	7	9.6	7	0.3	4	0.1		
12	4.6	26	4.6	6	4.6	10	4.6	24	4.6	8	0.8	8	GND	5	GND		

AK BOARD WAVEFORMS



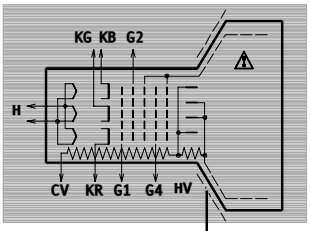
AK

[AUDIO AMP/TRUSURROUND/2ND-TUNER/S-LINK]

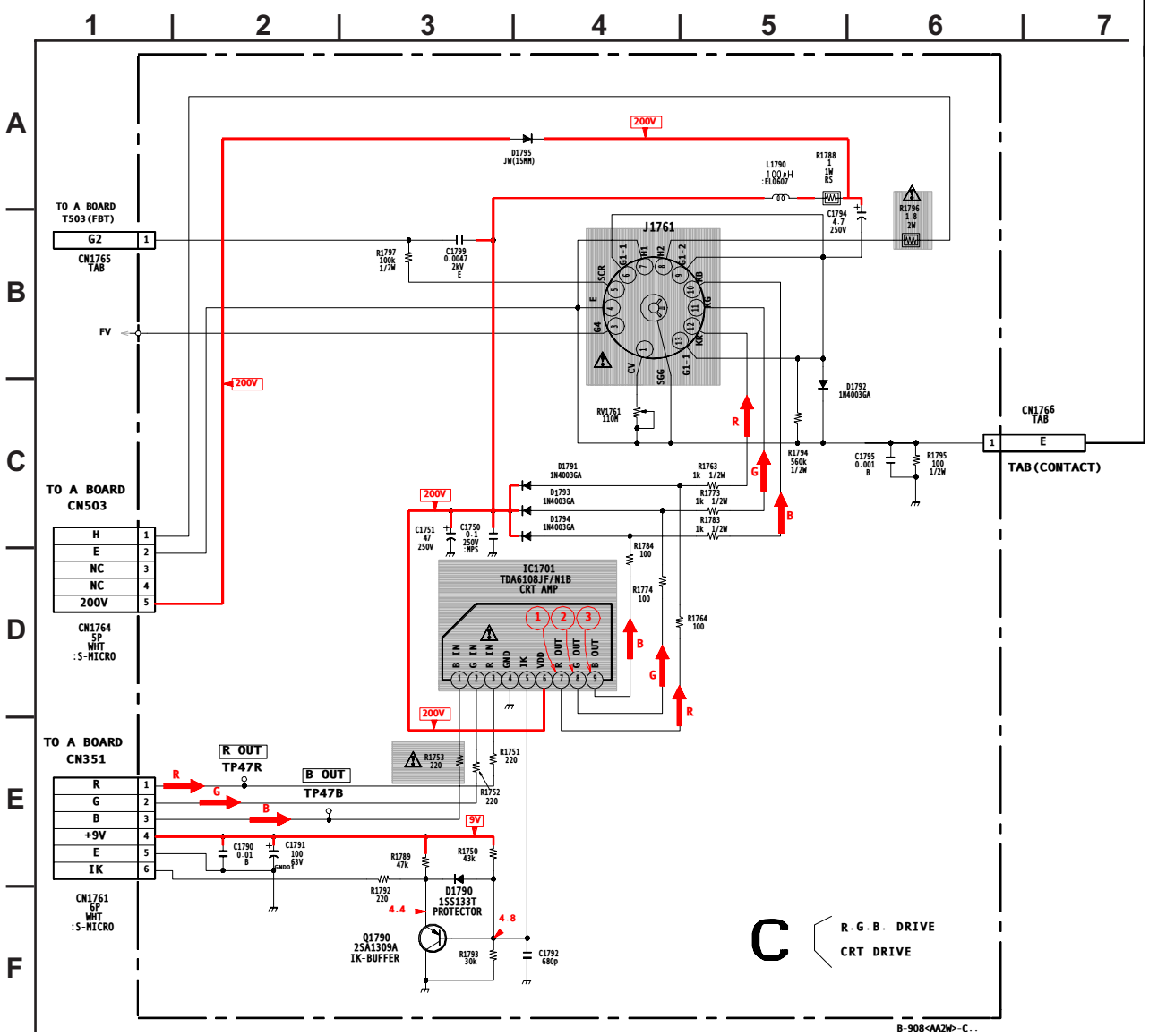


AK BOARD LOCATOR LIST

DIODE		IC1403	E-8
D101	A-2	IC1461	D-3
D103	A-6	IC1901	B-8
D104	A-6	IC1902	C-8
D105	B-8	TRANSISTOR	
D106	B-8	Q101	A-2
D107	C-8	Q105	A-6
D108	A-1	Q106	A-4
D109	B-1	Q451	B-8
D1461	B-3	Q1461	C-3
D1463	B-2	Q1462	C-2
D1466	B-2	Q1463	C-2
D1467	C-4	Q1464	C-2
D1468	C-4	Q1902	D-8
IC		Q1903	D-8
IC1401	D-6	Q1918	D-9
IC1402	B-6		



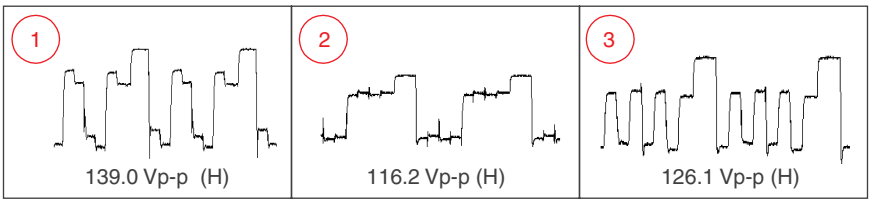
C BOARD SCHEMATIC DIAGRAM



C BOARD IC VOLTAGE LIST

IC1701		5	4.8
pin	volt	6	N/C
1	1.8	7	N/C
2	1.9	8	N/C
3	2.0	9	N/C
4	GND	All voltages are in V	

C BOARD WAVEFORMS

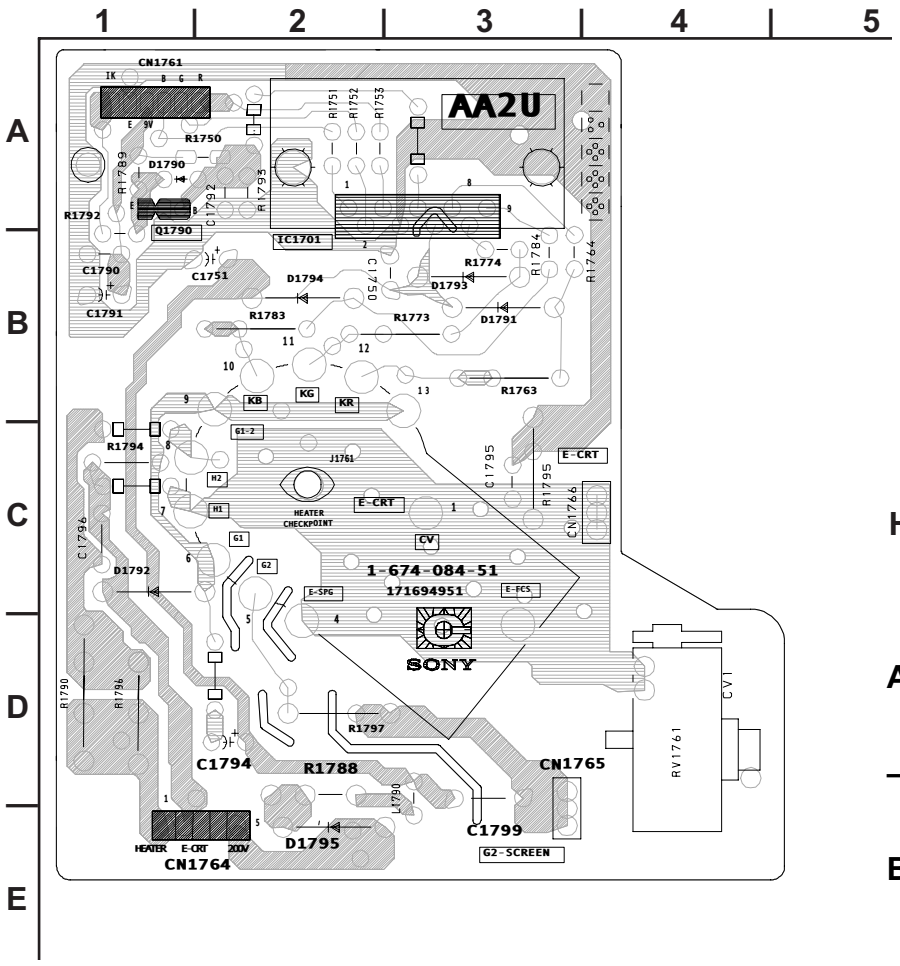


139.0 Vp-p (H)

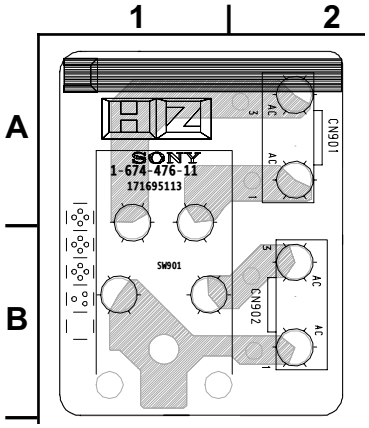
116.2 Vp-p (H)

126.1 Vp-p (H)

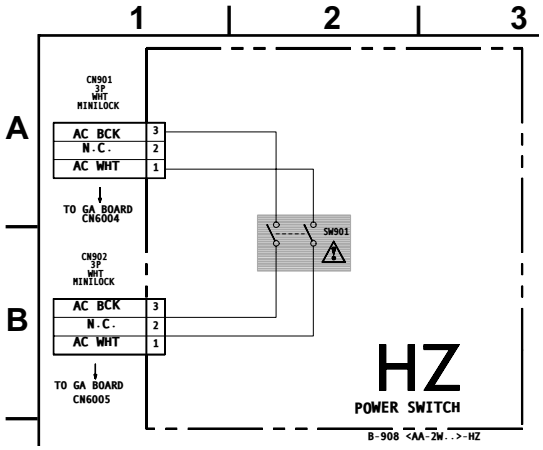
C [R.G.B. DRIVE/CRT DRIVE]



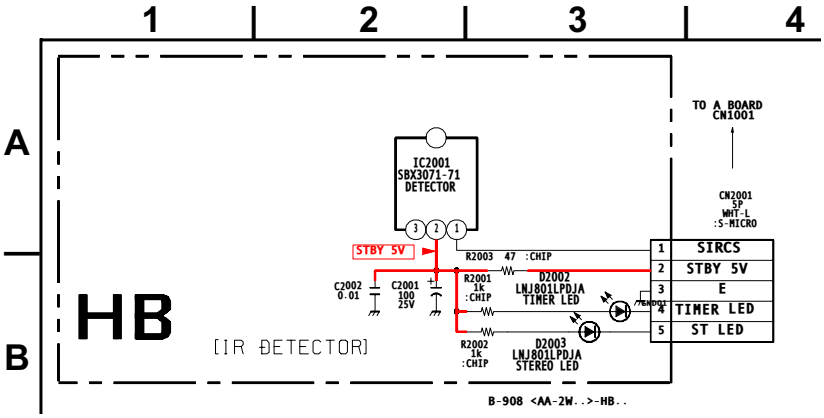
HZ [POWER SWITCH]



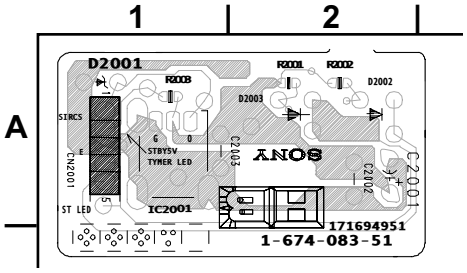
HZ BOARD SCHEMATIC DIAGRAM



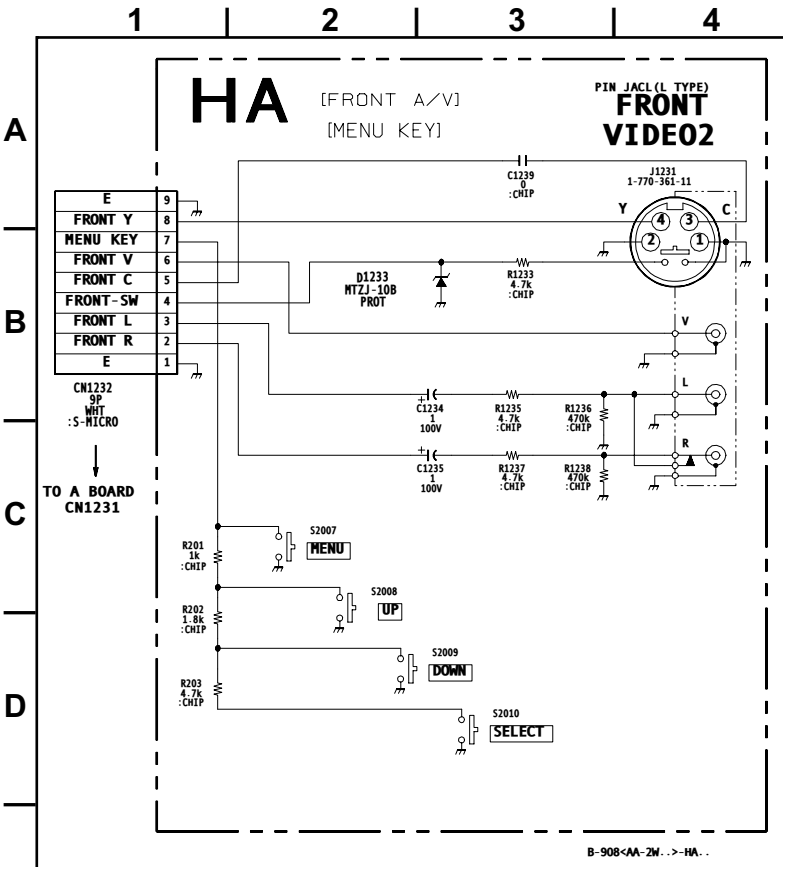
HB BOARD SCHEMATIC DIAGRAM



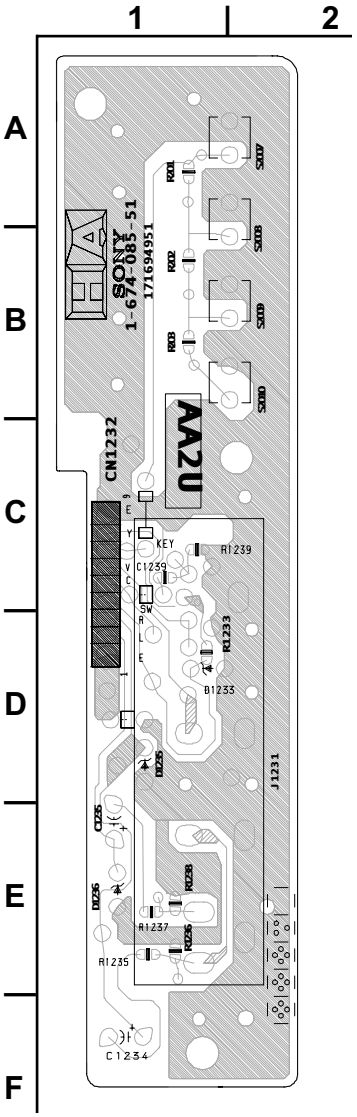
HB [IR DETECTOR]



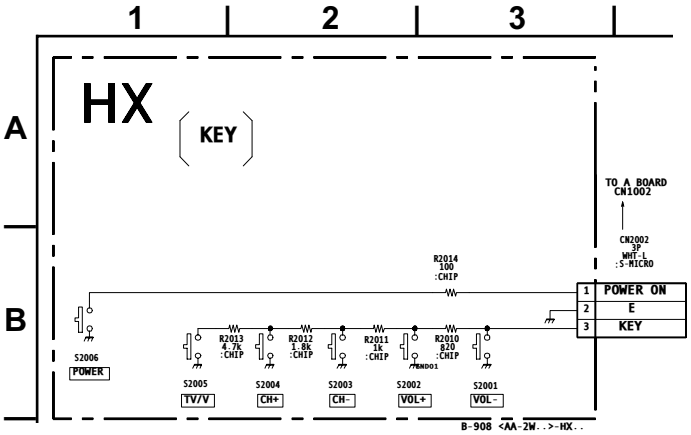
HA BOARD SCHEMATIC DIAGRAM



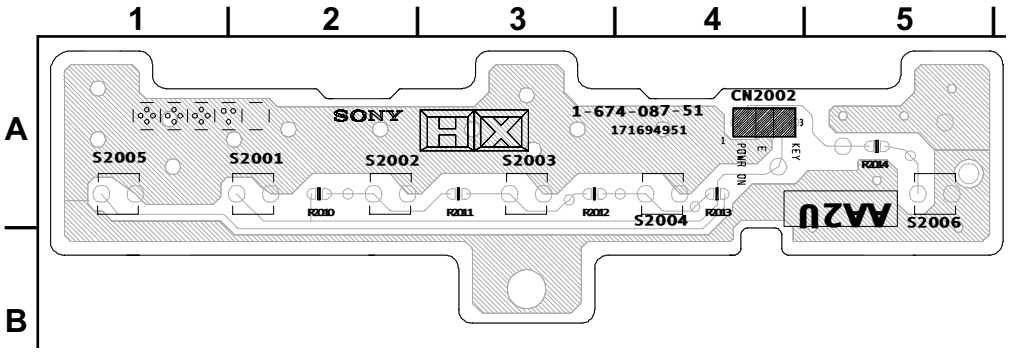
HA [FRONT A/V / MENU KEY]



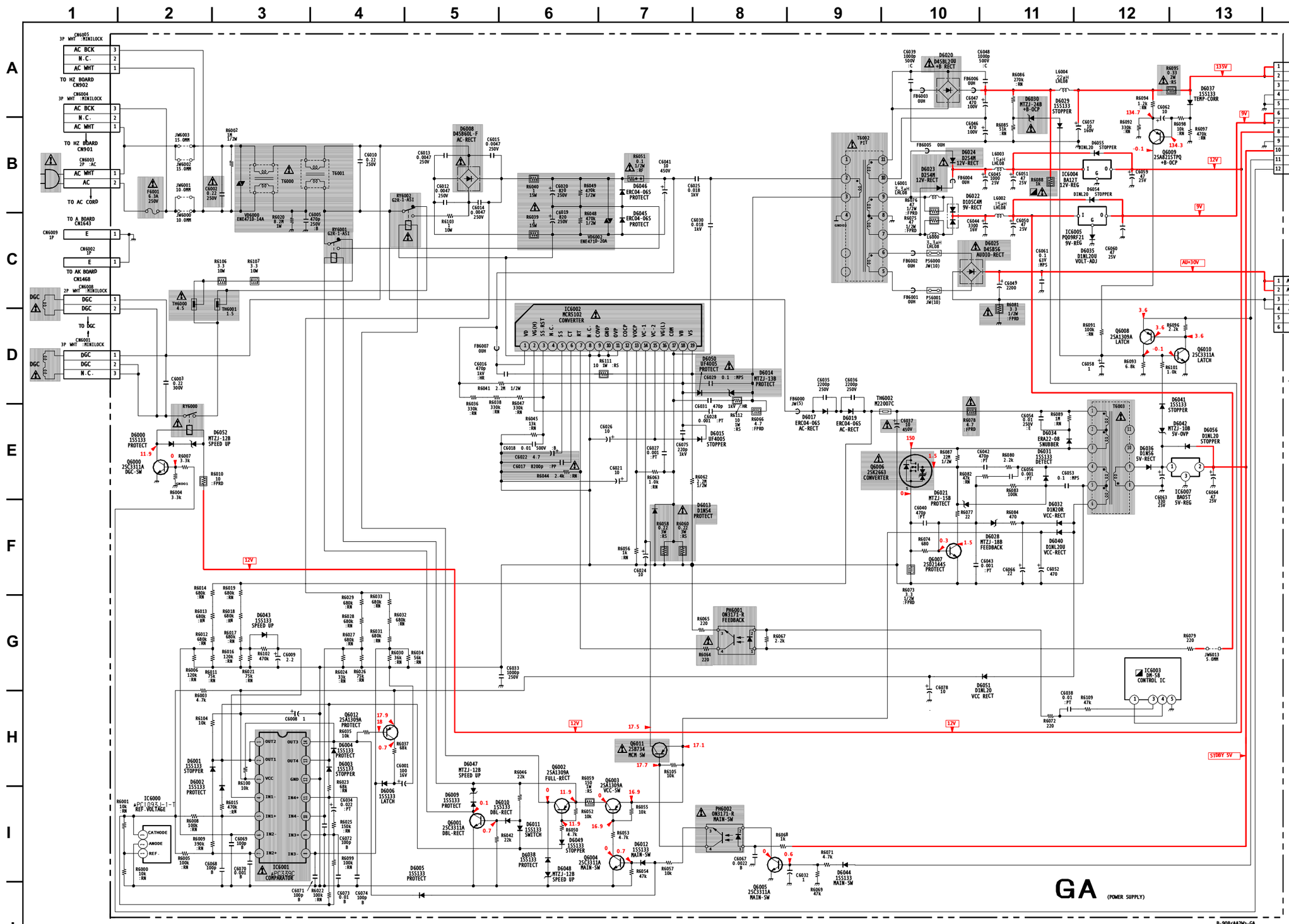
HX BOARD SCHEMATIC DIAGRAM



HX [KEY]

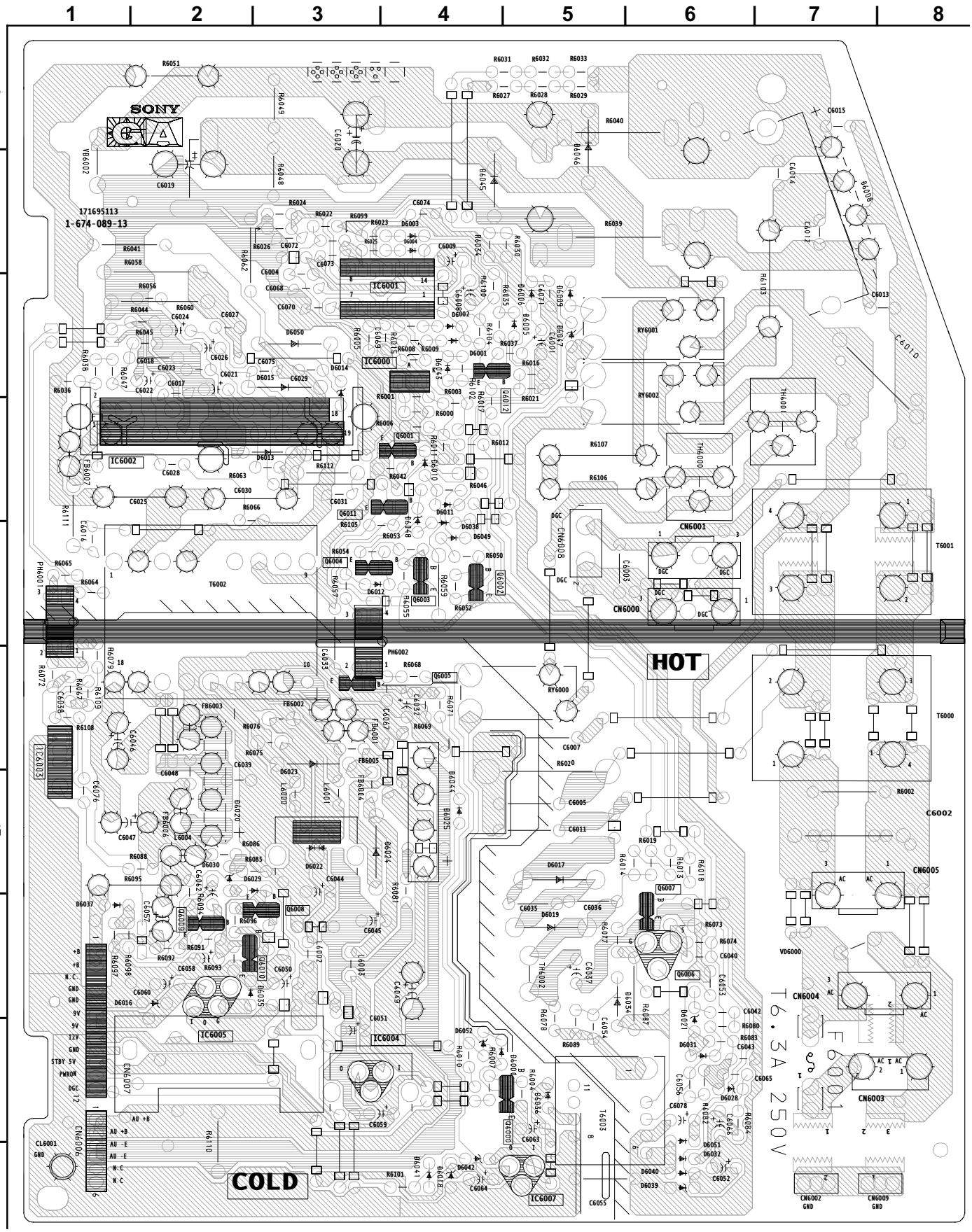


GA BOARD SCHEMATIC DIAGRAM



GA

[POWER SUPPLY]



GA BOARD LOCATOR LIST

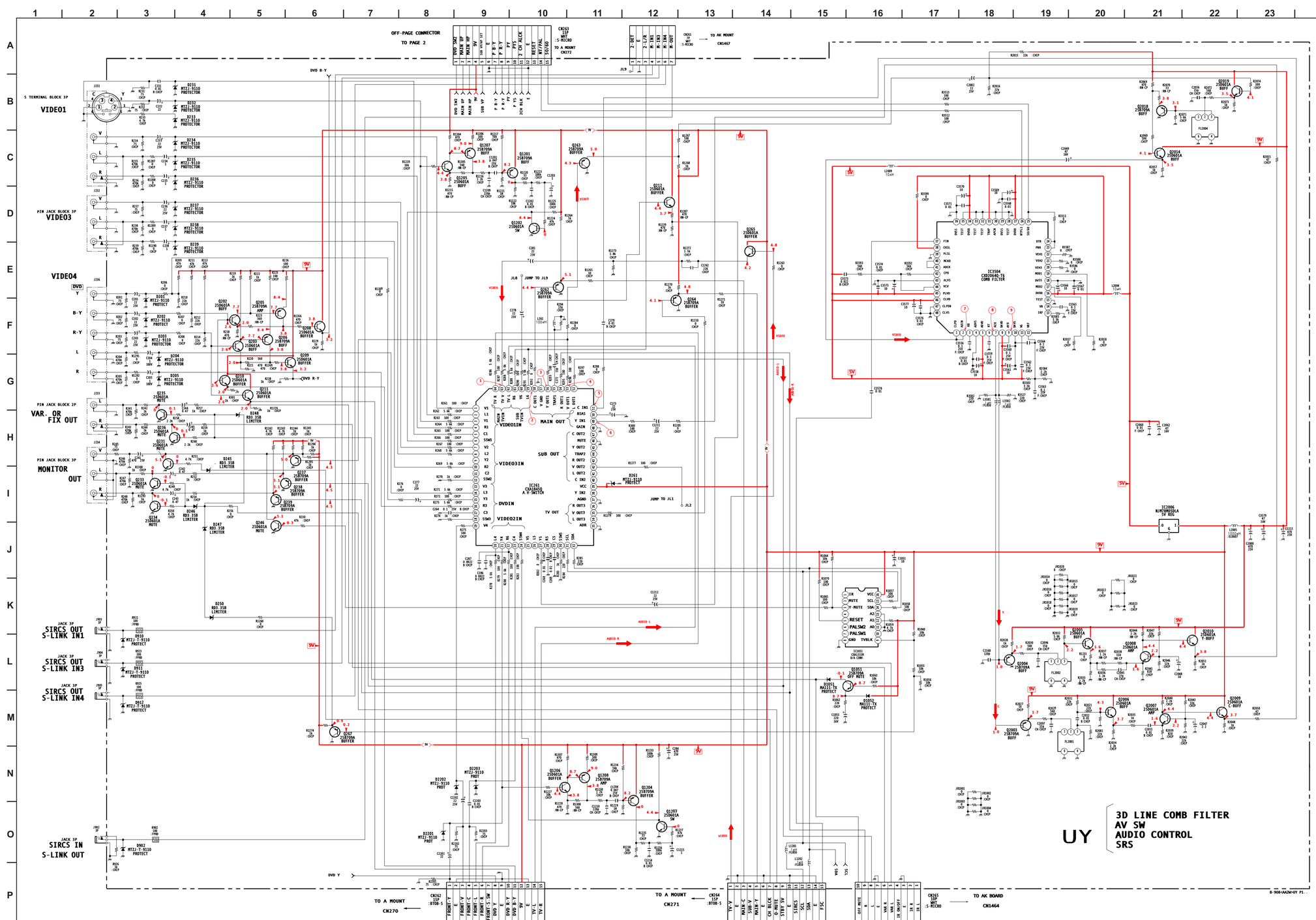
DIODE		D6024	G-3	D6052	I-4
D6000	I-5	D6025	G-4	**IC**	
D6001	C-4	D6028	H-2	IC6000	C-4
D6002	C-4	D6029	H-2	IC6001	B-3
D6003	B-4	D6030	G-2	IC6002	D-1
D6004	B-4	D6031	I-6	IC6003	F-1
D6005	C-5	D6032	J-6	IC6004	I-3
D6006	C-5	D6034	H-5	IC6005	H-2
D6008	B-7	D6035	H-2	IC6007	J-5
D6009	H-2	D6036	I-5	**TRANSISTOR**	
D6010	D-4	D6037	H-1	Q6000	I-5
D6011	P-4	D6038	E-4	Q6001	D-4
D6012	E-3	D6040	J-6	Q6002	E-4
D6013	D-3	D6041	J-4	Q6003	H-3
D6014	D-3	D6042	J-4	Q6004	E-3
D6015	C-2	D6043	C-4	Q6005	F-3
D6016	I-2	D6044	G-4	Q6006	H-6
D6017	H-5	D6045	B-4	Q6007	H-6
D6018	J-5	D6046	B-5	Q6008	H-3
D6019	H-5	D6047	C-5	Q6009	H-2
D6020	G-2	D6048	E-4	Q6010	H-2
D6021	I-6	D6049	E-4	Q6011	D-3
D6022	G-3	D6050	C-3	Q6012	C-4
D6023	G-3	D6051	J-6		

GA BOARD IC VOLTAGE LIST

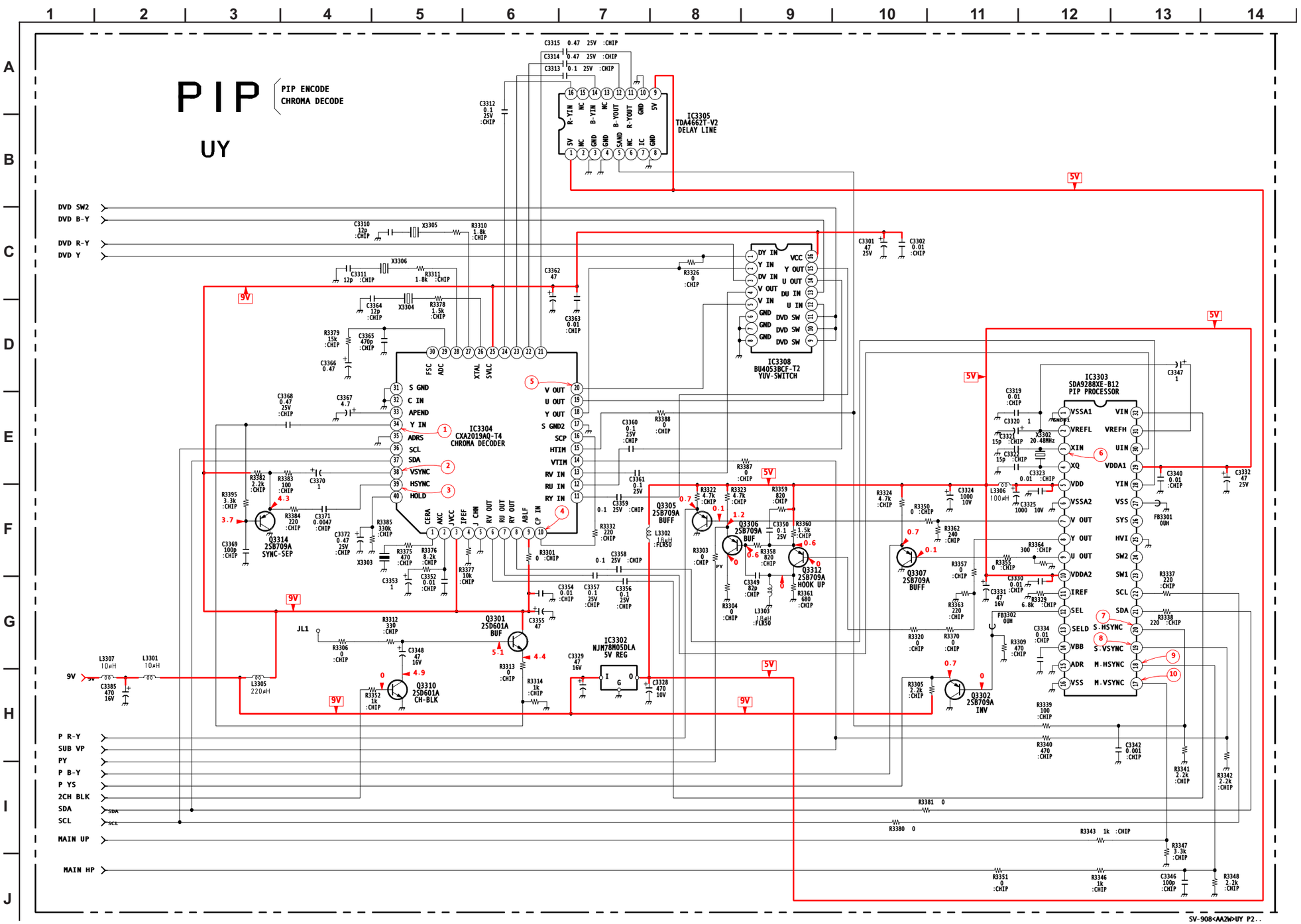
IC6000		IC6002		IC6003	
pin	**volt**	**pin**	**volt**	**pin**	**volt**
R	2.5	1	307.1	1	134.0
A	GND	2	168.5	2	N/C
C	5.0	3	3.9	3	2.4
IC6001		4	N/C	4	9.6
pin	**volt**	5	4.5	5	GND
1	17.9	6	2.1	**IC6004**	
2	17.9	7	3.8	**pin**	**volt**
3	17.9	8	GND	IN	13.4
4	3.2	9	GND	OUT	11.9
5	4.9	10	GND	GND	GND
6	3.3	11	GND	**IC6005**	
7	4.9	12	0	**pin**	**volt**
8	3.2	13	0	IN	11.4
9	4.9	14	17.3	OUT	9.5
10	3.4	15	10.4	GND	GND
11	4.8	16	4.7	**IC6007**	
12	GND	17	0	**pin**	**volt**
13	17.9	18	173.5	1	7.2
14	17.9	19	163.5	2	5.0
				3	GND

All voltages are in V

UY (MAIN) BOARD SCHEMATIC DIAGRAM



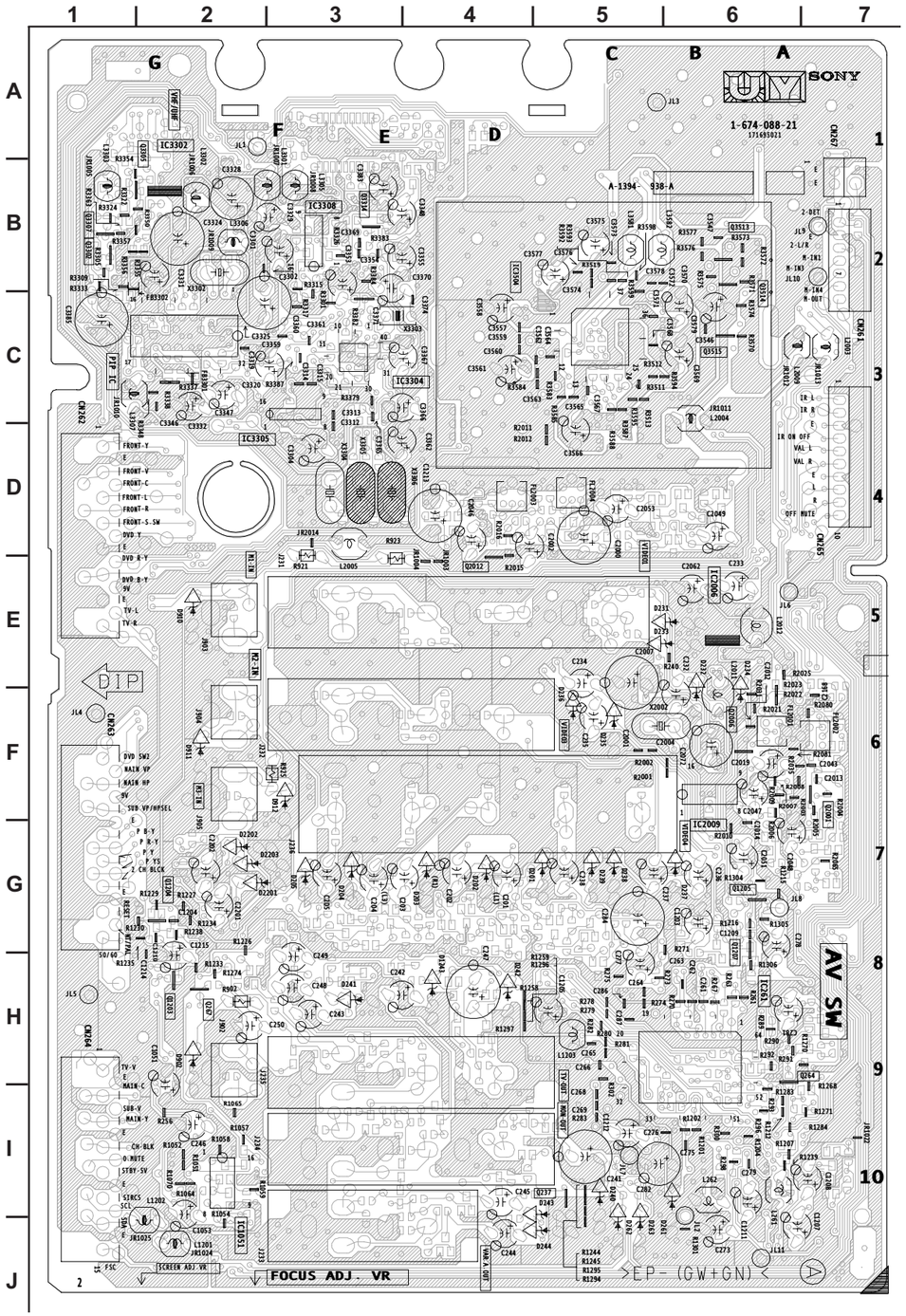
UY (PIP) BOARD SCHEMATIC DIAGRAM



UY

[3D LINE COMB FILTER / AV SW / AUDIO CONTROL / SRS / PIP ENCODE / CHROMA DECODE]

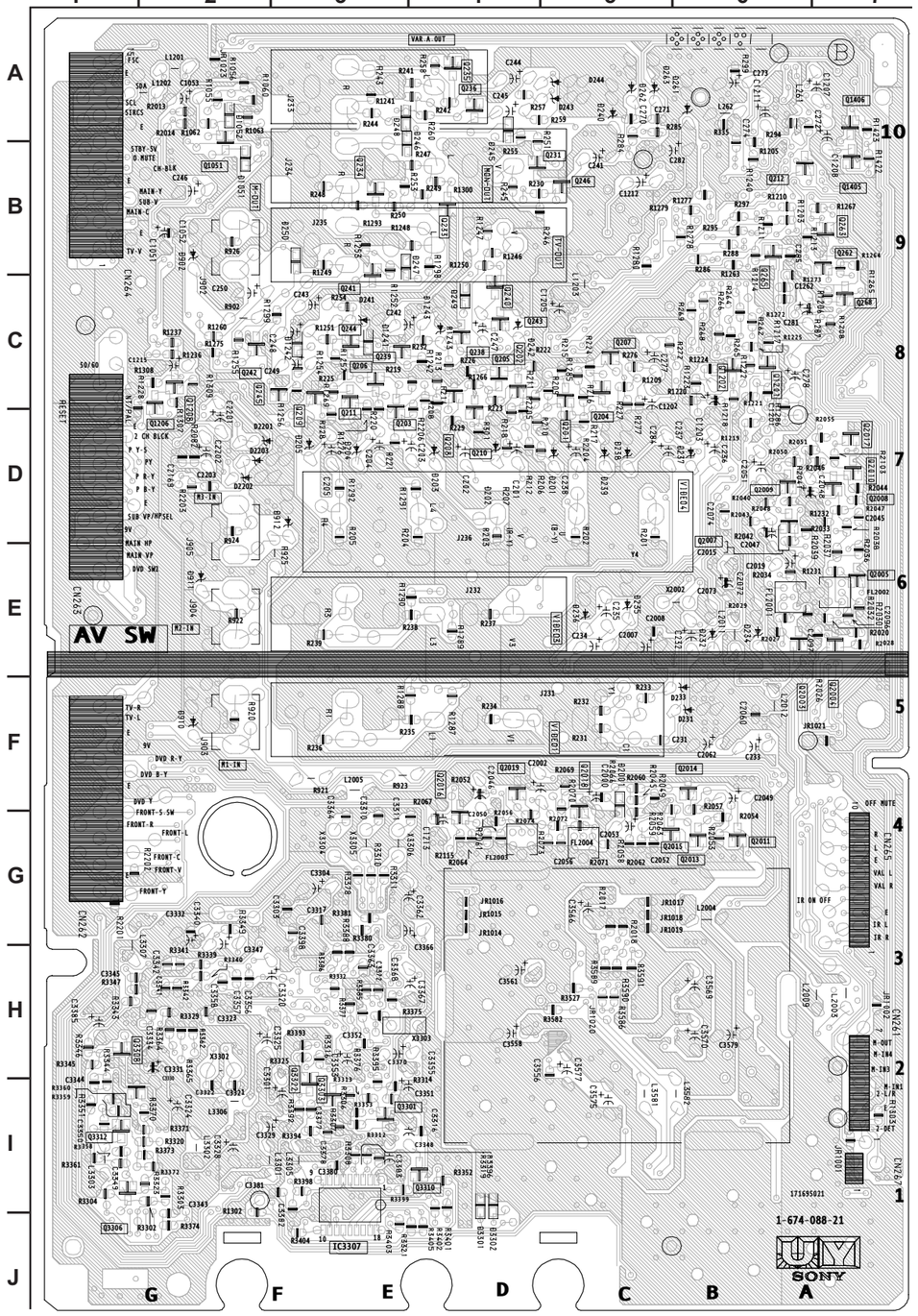
COMPONENT SIDE



UY BOARD LOCATOR LIST

DIODE			Q211	--	C-3
	comp	cond	Q212	--	B-6
D201	G-4	--	Q231	--	B-4
D202	G-4	--	Q233	--	B-4
D203	G-3	--	Q234	--	B-3
D204	G-3	--	Q235	--	A-4
D205	G-2	--	Q236	--	A-4
D231	E-5	--	Q237	I-4	--
D232	E-5	--	Q238	--	C-3
D233	E-5	--	Q239	--	B-4
D234	E-6	--	Q240	--	C-4
D235	F-5	--	Q241	--	B-3
D236	F-5	--	Q242	--	C-2
D237	G-5	--	Q243	--	C-4
D238	G-5	--	Q244	--	C-3
D239	G-5	--	Q245	--	C-2
D245	--	B-4	Q246	--	B-4
D246	--	A-3	Q262	--	B-6
D247	--	B-3	Q263	--	B-6
D248	--	A-3	Q264	I-6	--
D249	--	C-4	Q265	--	B-6
D250	--	B-2	Q267	H-2	--
D261	J-5	--	Q1051	--	B-2
D902	H-2	--	Q1201	--	C-6
D910	E-2	--	Q1202	--	C-6
D911	F-2	--	Q1203	H-2	--
D912	F-2	--	Q1204	G-1	--
D1051	F-2	B-2	Q1205	G-6	--
D1052	--	A-2	Q1206	--	C-1
D2201	G-2	--	Q1207	H-6	--
D2202	G-2	--	Q1208	--	C-1
D2203	G-2	--	Q1405	--	--
IC			Q1406	--	--
	comp	cond	Q2001	G-7	--
IC261	I-5	--	Q2003	--	F-6
IC1051	I-2	--	Q2004	--	F-7
IC2006	E-6	--	Q2005	--	E-7
IC2009	F-6	--	Q2006	F-6	--
IC3302	A-2	--	Q2007	--	D-5
IC3303	C-2	--	Q2008	--	D-7
IC3304	C-3	--	Q2009	--	D-6
IC3305	D-2	--	Q2010	--	D-7
IC3308	B-3	--	Q2014	--	F-5
IC3504	C-5	--	Q2017	--	D-7
TRANSISTOR			Q2018	--	F-4
	comp	cond	Q2019	--	F-4
Q201	--	D-4	Q3301	--	I-3
Q202	--	C-4	Q3302	--	B-1
Q203	--	D-3	Q3305	A-1	--
Q204	--	D-5	Q3306	--	H-1
Q205	--	C-4	Q3307	B-1	--
Q206	--	C-3	Q3310	--	I-3
Q207	--	C-5	Q3312	--	I-1
Q208	--	D-4	Q3314	B-3	--
Q209	--	C-3			
Q210	--	D-4			

CONDUCTOR SIDE



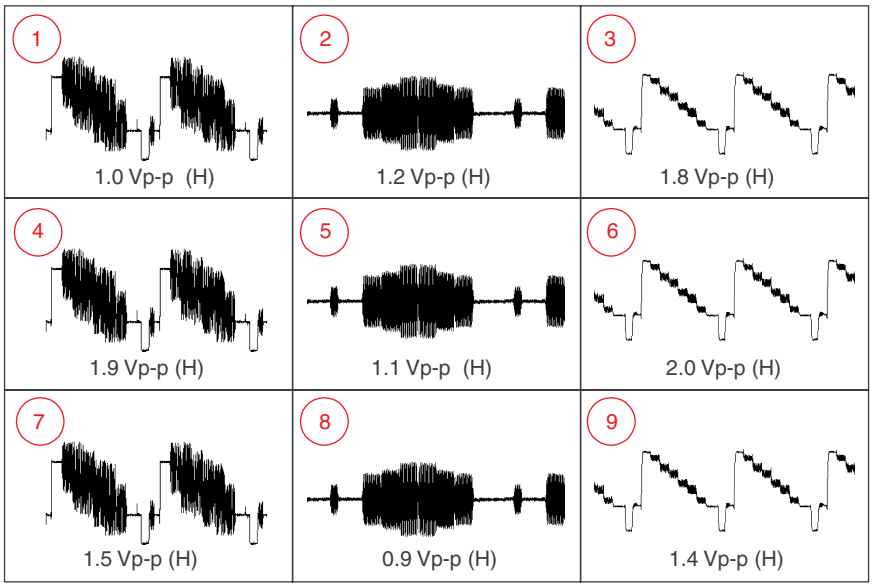
UY (MAIN) BOARD IC VOLTAGE LIST

IC261		26	N/C	53	4.5	14	4.4	IC3504		25	0
pin	volt	27	4.4	54	4.6	15	4.4	pin	volt	26	0
1	4.4	28	4.4	55	4.4	16	8.7	1	1.6	27	5.0
2	4.4	29	4.4	56	4.4	IC2006		2	1.6	28	GND
3	4.4	30	0	57	GND	pin	volt	3	0.5	29	GND
4	4.4	31	4.4	58	4.4	IN	8.7	4	GND	30	GND
5	4.4	32	4.4	59	4.5	OUT	5.1	5	5.0	31	5.0
6	4.4	33	GND	60	4.4	GND	GND	6	2.6	32	GND
7	4.4	34	4.4	61	4.5	IC2009		7	1.0	33	GND
8	4.4	35	4.1	62	4.4	pin	volt	8	5.0	34	5.0
9	N/C	36	4.5	63	4.4	1	4.9	9	1.0	35	GND
10	4.4	37	GND	64	4.4	2	GND	10	GND	36	GND
11	N/C	38	N/C	IC1051		3	4.9	11	2.6	37	2.3
12	0	39	8.7	pin	volt	4	1.3	12	2.0	38	5.0
13	4.4	40	N/C	1	2.3	5	4.9	13	2.0	39	GND
14	4.4	41	4.5	2	2.3	6	1.8	14	1.0	40	2.1
15	4.4	42	4.3	3	0.3	7	1.6	15	GND	41	2.1
16	4.4	43	4.5	4	N/C	8	GND	16	5.0	42	2.3
17	4.4	44	N/C	5	7.8	9	4.4	17	0	43	GND
18	0	45	N/C	6	N/C	10	4.4	18	GND	44	2.3
19	4.4	46	GND	7	N/C	11	4.9	19	0	45	5.0
20	4.4	47	N/C	8	GND	12	2.5	20	0	46	5.0
21	4.4	48	GND	9	0	13	2.2	21	5.0	47	GND
22	4.4	49	4.4	10	N/C	14	GND	22	5.0	48	GND
23	4.4	50	4.4	11	GND	15	0	23	0	All voltages are in V	
24	N/C	51	4.4	12	8.7	16	0	24	0		
25	N/C	52	4.5	13	GND						

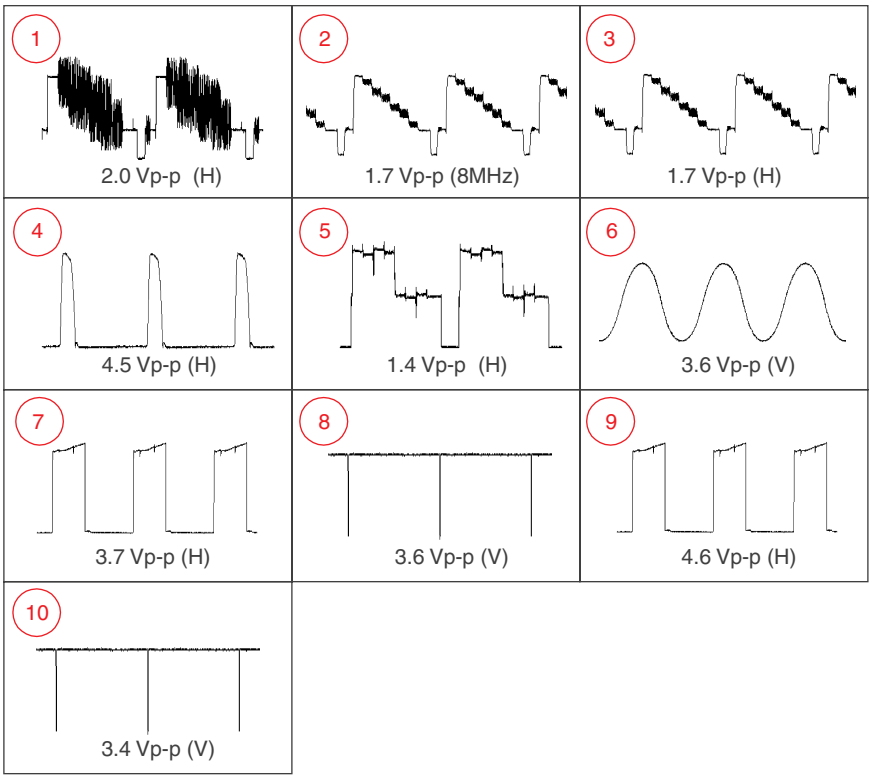
UY (PIP) BOARD IC VOLTAGE LIST

IC3302		19	0.1	10	0.7	35	GND	IC3308	
pin	volt	20	0.4	11	3.6	36	4.6	pin	volt
IN	8.5	21	4.5	12	4.2	37	4.6	1	3.4
OUT	5.1	22	4.5	13	4.2	38	4.3	2	2.5
GND	GND	23	N/C	14	0.1	39	3.3	3	3.2
IC3303		24	N/C	15	0.6	40	0.6	4	2.7
pin	volt	25	GND	16	0.7	IC3305		5	2.7
1	GND	26	N/C	17	GND	pin	volt	6	GND
2	3.0	27	0	18	2.5	1	5.1	7	GND
3	2.3	28	2.0	19	2.7	2	N/C	8	GND
4	2.0	29	5.0	20	2.7	3	GND	9	0.4
5	4.8	30	2.3	21	5.2	4	GND	10	0.4
6	GND	31	4.0	22	5.2	5	0.6	11	0.4
7	0.1	32	2.3	23	5.2	6	N/C	12	2.7
8	0	IC3304		24	5.2	7	N/C	13	3.2
9	0.1	pin	volt	25	8.3	8	GND	14	2.7
10	5.0	1	2.1	26	2.5	9	5.1	15	2.5
11	1.9	2	3.8	27	2.5	10	GND	16	8.3
12	0	3	8.3	28	2.5	11	3.0		
13	N/C	4	1.6	29	4.5	12	3.0		
14	-2.9	5	GND	30	N/C	13	N/C		
15	GND	6	2.7	31	GND	14	1.4		
16	GND	7	2.7	32	GND	15	N/C		
17	3.6	8	2.6	33	3.6	16	1.4		
18	0.2	9	8.3	34	3.4				

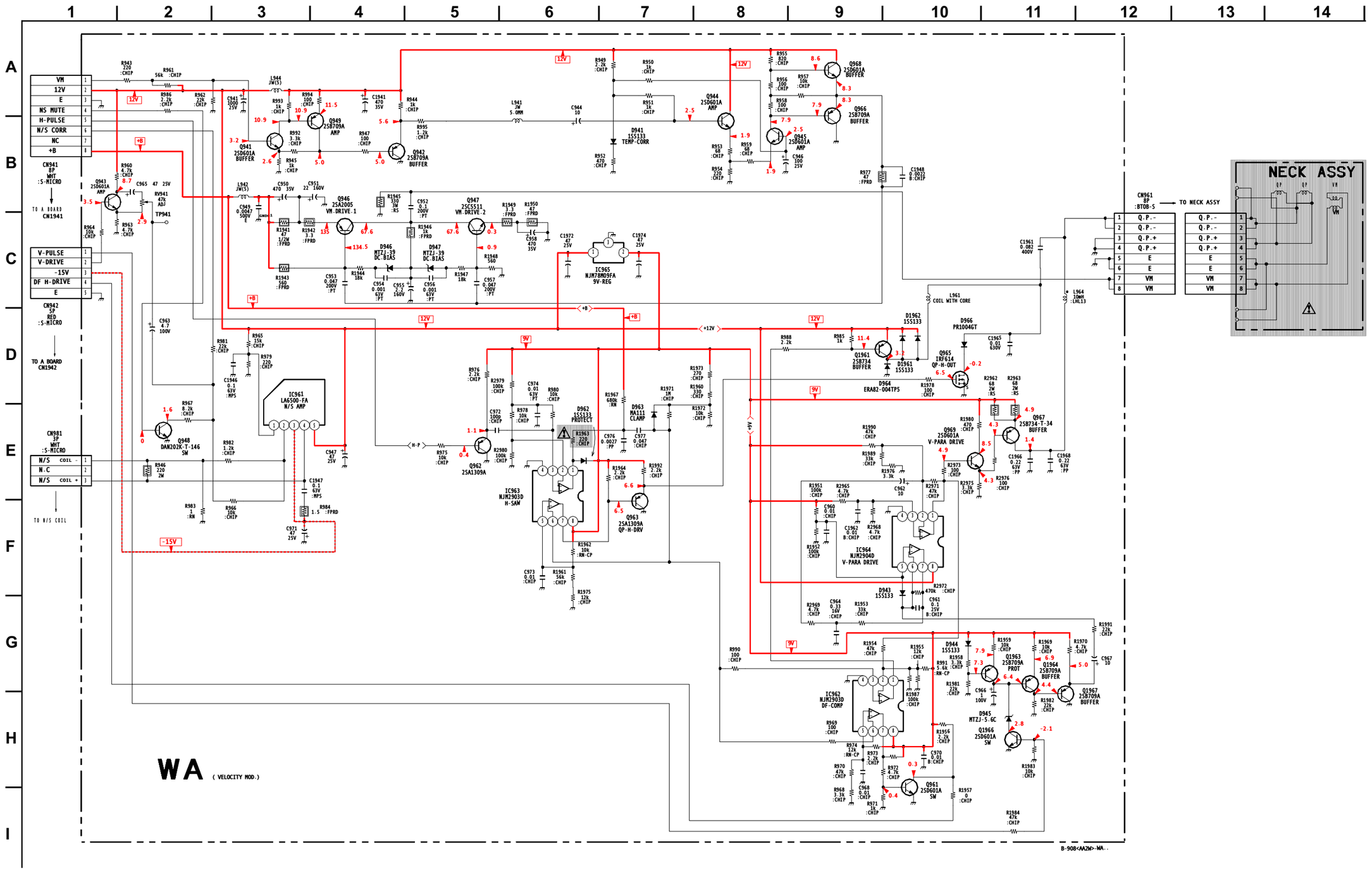
UY (MAIN) BOARD WAVEFORMS



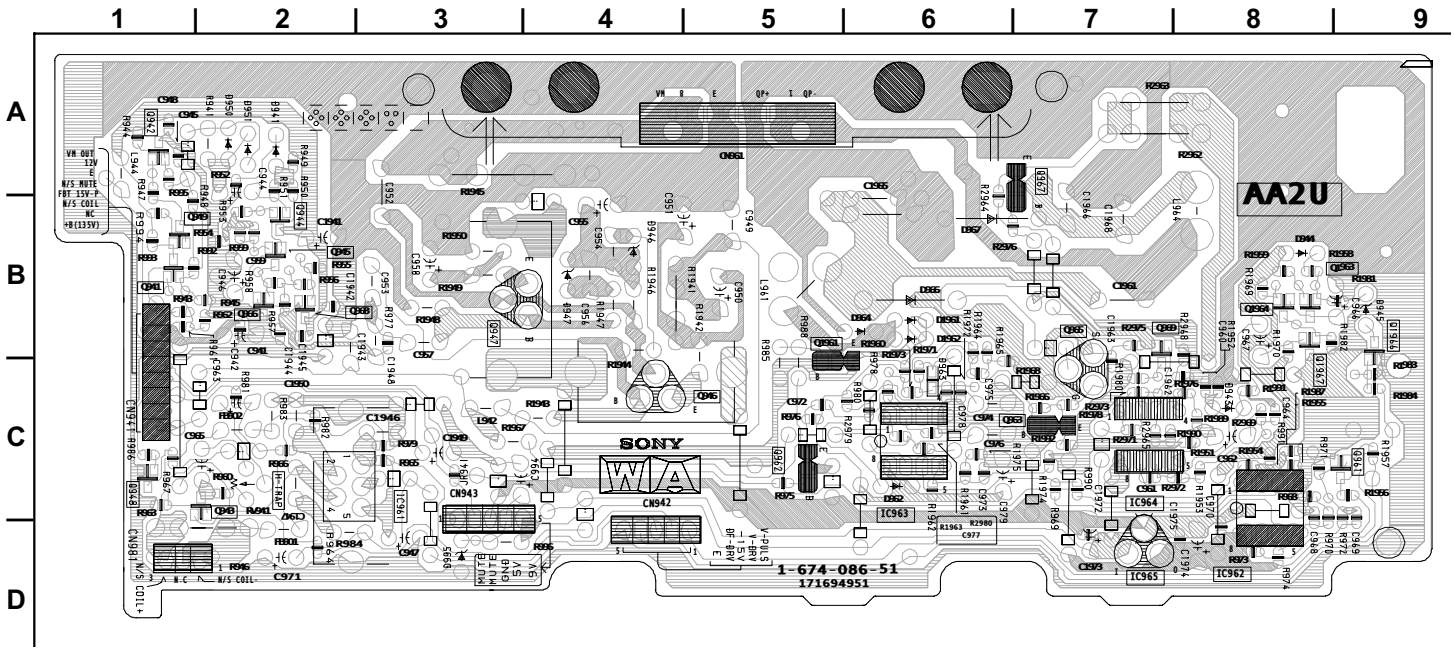
UY (PIP) BOARD WAVEFORMS



WA BOARD SCHEMATIC DIAGRAM



WA [VELOCITY MOD.]



WA BOARD IC VOLTAGE LIST

IC961		3	4.6
pin	volt	4	GND
1	0.2	5	7.5
2	0.2	6	6.8
3	-13.9	7	6.5
4	0.5	8	8.9
5	11.7	IC964	
IC962		pin	volt
pin	volt	1	4.9
1	8.5	2	4.0
2	5.8	3	4.0
3	6.8	4	GND
4	GND	5	4.4
5	7.2	6	4.4
6	6.8	7	4.4
7	3.8	8	11.7
8	8.9	IC965	
IC963		pin	volt
pin	volt	1	11.6
1	2.0	2	9.0
2	4.2	3	GND

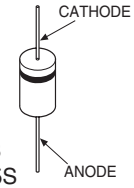
All voltages are in V

WA BOARD LOCATOR LIST

DIODE		Q942	A-1
D941	A-2	Q943	C-2
D943	C-8	Q944	B-2
D944	B-8	Q945	B-2
D945	B-9	Q946	C-4
D946	B-4	Q947	B-3
D947	B-4	Q948	C-1
D962	C-6	Q949	B-1
D963	B-6	Q961	C-9
D964	B-6	Q962	C-5
D964	B-6	Q963	C-7
D1961	B-6	Q965	B-7
D1962	B-6	Q966	B-2
IC		Q967	A-7
IC961	C-2	Q968	B-3
IC962	C-8	Q969	B-8
IC963	C-6	Q1961	B-5
IC964	C-7	Q1963	B-9
IC965	D-7	Q1964	B-8
TRANSISTOR		Q1966	B-9
Q941	B-1	Q1967	B-8

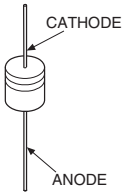
5-4. SEMICONDUCTORS

D1NL20U
D2L20U
EL1Z
EGP20G
EGP30G
ERA22-08
ERC06-15S
ERD29-08J
EZ0150AV1
GP08D
MTZJ-33A
1SS83

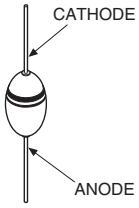


D1NS4
MTZJ-XXA
MTZJ-XXB
MTZJ-XXC
RDXXESB1
RDXXESB2
RDXXESB3
1SS119-25
1SS133T-77

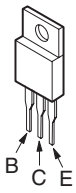
(XX = VALUE)



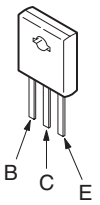
U05G



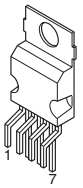
2SA1837
2SC4159-E
2SC4793
2SD2012



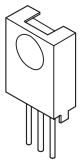
2SC4834M



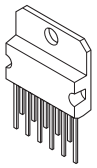
TDA8172



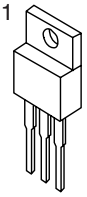
SBX1981



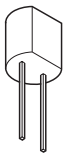
TDA2009A
TDA7262



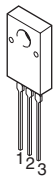
NJM78M05FA
PQ09RF21
TA7805S
BA05T



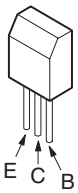
IC LINK
2A/90V



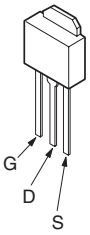
D10SC4M



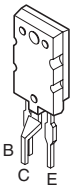
2SC3209LK



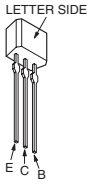
2SK2845-LB102



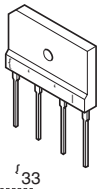
TSC5148
(LE SONY)



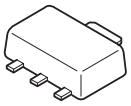
2SA1175-HFE
2SA933AS-QRT
2SC2785-HFE



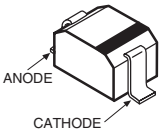
D10SBS4F
D6SB60L
D4SB60L



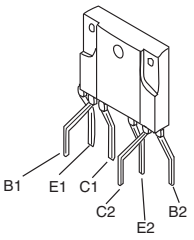
S-80748AL

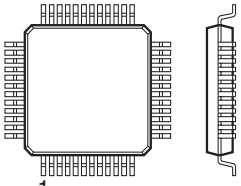


MA111
RD3.3SB
1SS355



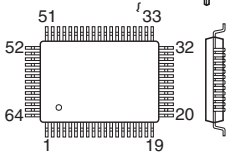
MX0842B-F





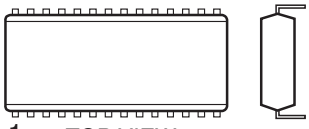
TOP VIEW
40 pin

CXA2019Q



TOP VIEW

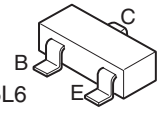
CXA1845Q - 64 pin
LC27016 - 80 pin
SAB9076AH
µPD6488GF-33A
µPD64081BGF-3BA - 100 pin



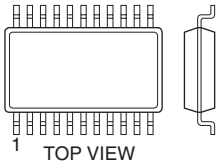
TOP VIEW
32 pin DIP

BH3868FS-E2
V53C16258SHK - 40 pin DIP

2SA1037K-T146-R
2SA1162-G
2SA1330-06
2SB709A
2SC1623-L5L6
2SD601A-Q



8 pin SOP
NJM2903D
NJM2903M
NJM2904D
ST24C02FM6TR
µPC4558G2
X24C04SB



TOP VIEW

20 pin SOP
NJM2150M

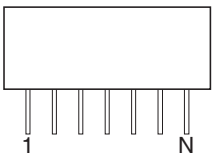
16 pin SOP
BU4053BCF-T2
CXA1315M
MC14052BF
MC14538B
NJM2145M-TE2
CXD2064Q-T6

24 pin SOP
CXA2039M-T6

28 pin SOP
MN47V76ST1
MN47V77ST1

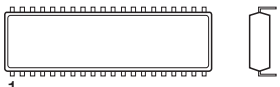
36 pin SOP
µPC1862GS-E2

DM-58



MARKING SIDE VIEW

Epin 1 ' N
EMt (one side, both sides)



TOP VIEW

14 pin DIP
NJM2902M

16 pin DIP
MM1093N

20 pin DIP
TA1226N

22 pin DIP
CXA2021S

28 pin DIP
TDA7467

30 pin DIP
CXD2073S

40 pin DIP
SDA9288XE

42 pin DIP
MM1311AD
MM1313AD

48 pin DIP
CXA2131S

64 pin DIP
CXP85856A-029S

SECTION 6: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

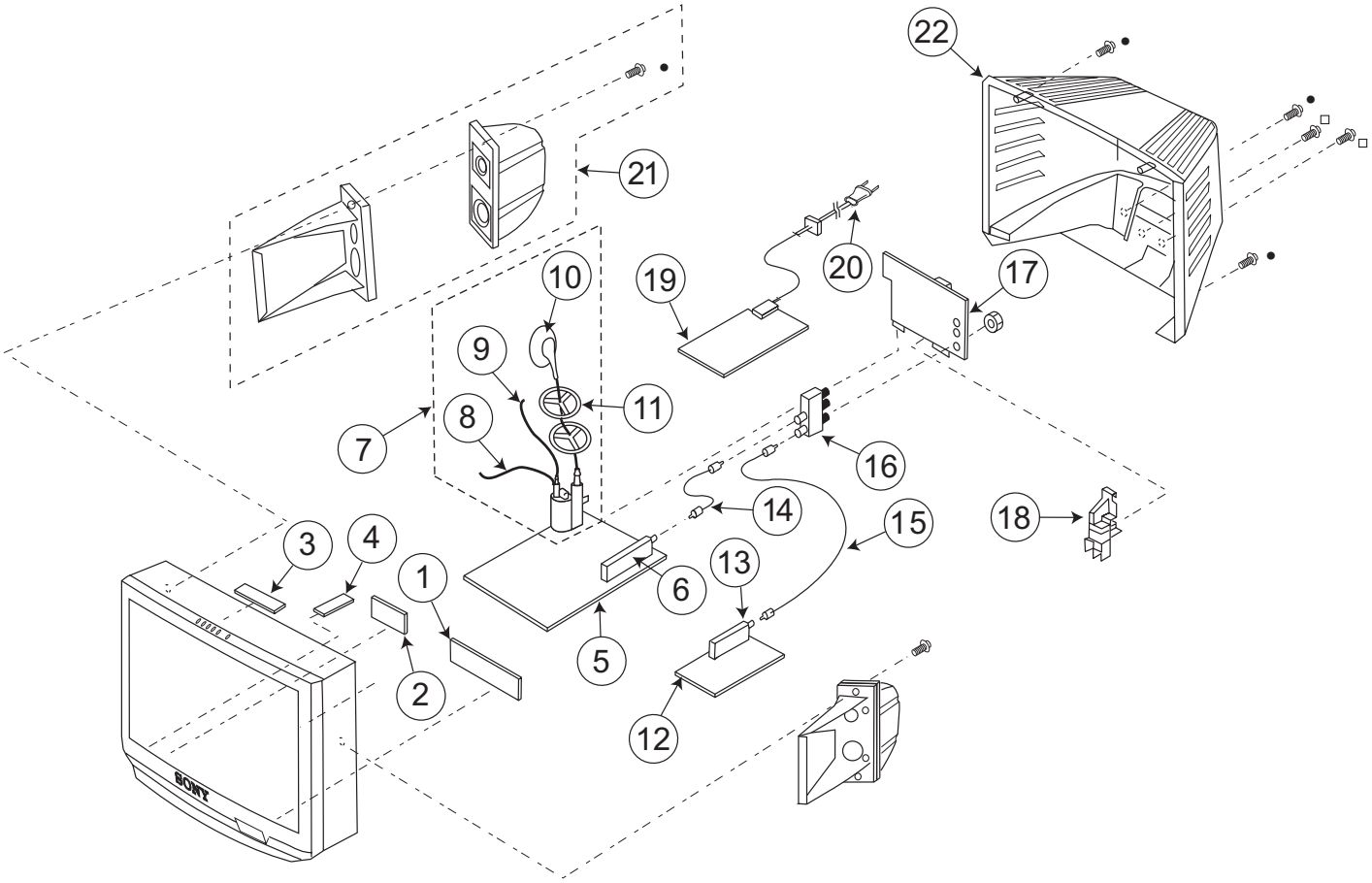
*** Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.**

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS

□ 7-685-646-79 SCREW (3 X 12, TYPE 2)
● 7-685-663-79 SCREW (4 X 16, TYPE 2)



	REF.NO.	PART NO.	DESCRIPTION	[Assembly Includes]
*	1	A-1372-634-A	HA MOUNTED PC BOARD	
*	2	A-1372-635-A	HB MOUNTED PC BOARD	
*	3	A-1372-636-A	HX MOUNTED PC BOARD	
*	4	A-1372-667-A	HZ MOUNTED PC BOARD	
*	5	A-1299-460-A	A COMPLETE PC BOARD	
⚠	6	8-598-542-20	TUNER, FSS BTF-WA412	
⚠	7	1-453-310-11	FBT ASSY NX-4521//X4J4	8-10
	8	1-900-800-82	WIRE ASSY, FOCUS	
	9	1-900-803-22	WIRE ASSY, G2 LEAD	
	10	1-251-374-13	CAP ASSY, HIGH-VOLTAGE	
	11	4-041-203-01	HOLDER, HV CABLE	

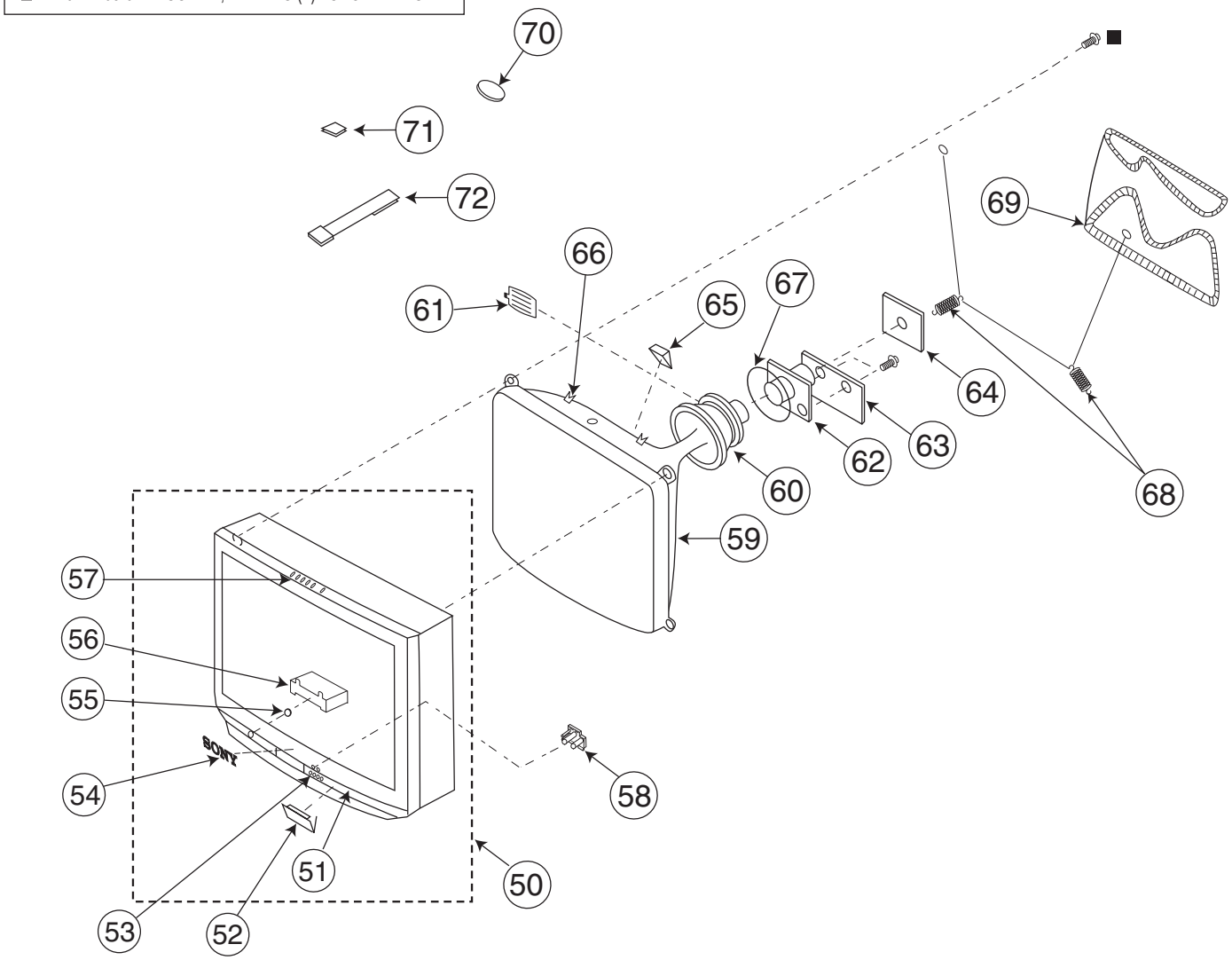
	REF.NO.	PART NO.	DESCRIPTION
*	12	A-1298-957-A	AK COMPLETE PC BOARD
⚠	13	8-598-501-30	TUNER, FSS BTF-FA402
*	14	1-557-056-31	CABLE, P-P
*	15	1-556-945-21	CABLE, P-P
	16	8-598-414-20	CHANGER, ANTENNA AS-2F
*	17	A-1394-942-A	UY COMPLETE PC BOARD
*	18	3-696-606-02	HINGE, VI
*	19	A-1316-466-A	GA COMPLETE PC BOARD
⚠	20	1-783-838-71	CORD, POWER (WITH CONNECTOR)
	21	A-1484-429-A	SPEAKER BOX ASSY
	22	X-4038-715-1	COVER ASSY, REAR

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

6-2. PICTURE TUBE

■ 4-041-268-01 SCREW, TAPPING (7) +CROWN WASHER



	REF.NO.	PART NO.	DESCRIPTION	[Assembly Includes]
	50	X-4036-852-5	BEZNET ASSY	51
	51	3-703-574-00	RETAINER, DOOR	
	52	4-068-985-13	DOOR	
	53	4-068-984-01	MULTI-BUTTON (BOTTOM)	
	54	3-704-179-31	EMBLEM (NO.9), SONY	
	55	4-068-995-01	BUTTON, MAIN POWER	
	56	4-052-635-01	MAIN POWER BRACKET	
	57	4-068-982-05	MULTI-BUTTON (TOP)	
	58	4-068-986-01	GUIDE, LED	
⚠	59	8-735-056-05	CRT 29RSN	
⚠	60	8-451-494-31	DY Y29RSA-S	
	61	2-163-920-01	PLATE, TLH CORRECTION	
⚠	62	8-453-011-11	NA299-M	

	REF.NO.	PART NO.	DESCRIPTION
*	63	A-1375-187-A	WA COMPLETE PC BOARD
*	64	A-1331-939-A	C (VAR) MOUNTED PC BOARD
	65	4-031-319-01	SPACER, DY
*	66	4-062-970-12	CLIP (29RSN), DGC
	67	1-452-896-11	COIL, NA ROTATION (RT200)
	68	4-036-329-11	SPRING (B), TENSION
⚠	69	1-419-157-11	COIL, DEGAUSSING
	70	1-452-094-00	CIRCULAR DISC MAGNET B
	71	1-452-032-00	MAGNET,DISC
	72	4-062-047-02	PIECE A(110), CONV CORRECT

SECTION 7: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components in this manual identified by the following symbol: ⧓ indicate parts that have been carefully factory-selected to satisfy regulations regarding X-ray radiation for each set.

Should replacement be required for one of these components, replace only with the value originally used.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

RESISTORS
- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

AK

When ordering parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	VALUES		
AK					
	* A-1298-957-A	AK BOARD, COMPLETE			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	CAPACITOR				
C101	1-117-534-91	ELECT	1µF	20%	100V
C102	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C104	1-117-511-91	ELECT	10µF	20%	50V
C106	1-104-664-11	ELECT	47µF	20%	25V
C108	1-117-498-91	ELECT	1000µF	20%	25V
C109	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C110	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C111	1-117-534-91	ELECT	1µF	20%	100V
C113	1-104-666-11	ELECT	220µF	20%	25V
C115	1-117-534-91	ELECT	1µF	20%	100V
C175	1-117-506-91	ELECT	470µF	20%	35V
C440	1-117-512-91	ELECT	22µF	20%	50V
C441	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C442	1-117-534-91	ELECT	1µF	20%	100V
C443	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C444	1-164-346-11	CERAMIC CHIP	1µF		16V
C445	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C446	1-164-346-11	CERAMIC CHIP	1µF		16V
C447	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C448	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C449	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C453	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C454	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C455	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C456	1-163-023-00	CERAMIC CHIP	0.015µF	10%	50V
C457	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1401	1-117-537-91	ELECT	4.7µF	20%	100V
C1402	1-117-524-91	ELECT	100µF	20%	63V
C1403	1-117-537-91	ELECT	4.7µF	20%	100V
C1404	1-117-534-91	ELECT	1µF	20%	100V
C1405	1-117-534-91	ELECT	1µF	20%	100V
C1406	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1407	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C1408	1-163-989-11	CERAMIC CHIP	0.033µF	10%	25V
C1409	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C1410	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C1411	1-164-182-11	CERAMIC CHIP	0.0033µF	10%	50V
C1412	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C1413	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C1414	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C1415	1-117-532-91	ELECT	0.47µF	20%	100V
C1416	1-117-537-91	ELECT	4.7µF	20%	100V
C1417	1-117-532-91	ELECT	0.47µF	20%	100V
C1420	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C1421	1-117-537-91	ELECT	4.7µF	20%	100V
C1422	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C1423	1-117-506-91	ELECT	470µF	20%	35V
C1426	1-126-941-11	ELECT	470µF	20%	25V
C1428	1-117-537-91	ELECT	4.7µF	20%	100V
C1429	1-117-537-91	ELECT	4.7µF	20%	100V
C1450	1-117-537-91	ELECT	4.7µF	20%	100V
C1451	1-117-537-91	ELECT	4.7µF	20%	100V
C1452	1-163-986-00	CERAMIC CHIP	0.027µF	10%	25V
C1461	1-117-534-91	ELECT	1µF	20%	100V
C1462	1-117-534-91	ELECT	1µF	20%	100V
C1464	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C1465	1-117-534-91	ELECT	1µF	20%	100V
C1467	1-104-666-11	ELECT	220µF	20%	25V
C1468	1-117-534-91	ELECT	1µF	20%	100V
C1470	1-117-534-91	ELECT	1µF	20%	100V
C1471	1-136-189-00	MYLAR	0.1µF	5%	63V
C1472	1-136-193-11	MYLAR	0.47µF	5%	63V
C1473	1-128-550-11	ELECT	2200µF	20%	50V
C1474	1-136-189-00	MYLAR	0.1µF	5%	63V
C1475	1-128-550-11	ELECT	2200µF	20%	50V
C1476	1-128-550-11	ELECT	2200µF	20%	50V
C1477	1-117-527-91	ELECT	470µF	20%	63V
C1478	1-117-527-91	ELECT	470µF	20%	63V

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

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AK

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	C1904	1-102-129-00	CERAMIC	0.01µF	10%	50V
	C1905	1-117-511-91	ELECT	10µF	20%	50V
	C1906	1-102-129-00	CERAMIC	0.01µF	10%	50V
	C1907	1-117-511-91	ELECT	10µF	20%	50V
	C1908	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
	C1909	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
	C1910	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
	C1911	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
	C1912	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
		CONNECTOR				
*	CN1462	1-564-507-11	PLUG,CONNECTOR	4P		
*	CN1463	1-564-509-11	PLUG,CONNECTOR	6P		
*	CN1464	1-764-333-11	PLUG,CONNECTOR	10P		
*	CN1466	1-564-515-11	PLUG,CONNECTOR	12P		
*	CN1467	1-564-510-11	PLUG,CONNECTOR	7P		
	CN1468	1-695-915-11	TAB (CONTACT)			
		DIODE				
	D101	8-719-109-89	DIODE MTZJ-T-77-5.6C			
	D103	8-719-991-33	DIODE 1SS133T-77			
	D104	8-719-991-33	DIODE 1SS133T-77			
	D105	8-719-991-33	DIODE 1SS133T-77			
	D106	8-719-991-33	DIODE 1SS133T-77			
	D107	8-719-991-33	DIODE 1SS133T-77			
	D108	8-719-110-17	DIODE MTZJ-T-77-10B			
	D109	8-719-110-17	DIODE MTZJ-T-77-10B			
	D1461	8-719-991-33	DIODE 1SS133T-77			
	D1463	8-719-991-33	DIODE 1SS133T-77			
	D1466	8-719-991-33	DIODE 1SS133T-77			
	D1467	8-719-924-13	DIODE MTZJ-T-77-22B			
	D1468	8-719-924-13	DIODE MTZJ-T-77-22B			
	D1469	8-719-991-33	DIODE 1SS133T-77			
		IC				
	IC1401	8-759-578-88	IC BH3868FS-E2			
	IC1402	8-759-100-96	IC NJM4558M-TE2			
	IC1403	8-759-537-26	IC TDA7467D013TR			
⚠	IC1461	8-759-246-70	IC TA8216H			
	IC1901	8-752-058-68	IC CXA1315M-T4			
	IC1902	8-759-470-63	IC NJM2145M-TE2			
		CHIP CONDUCTOR				
	JR1901	1-216-295-11	SHORT			
	JR1902	1-216-295-11	SHORT			
		COIL				
	L102	1-414-856-11	INDUCTOR	10µH		
	L105	1-414-857-11	INDUCTOR	100µH		
	L1401	1-414-857-11	INDUCTOR	100µH		
		IC LINK				
⚠	PS1461	1-532-984-11	LINK, IC 2A/90V			
		TRANSISTOR				
	Q101	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
	Q105	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			
	Q106	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
	Q1461	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
	Q1462	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX			
	Q1463	8-729-900-53	TRANSISTOR DTC114EKA-T146			
	Q1464	8-729-900-53	TRANSISTOR DTC114EKA-T146			
	Q1902	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			
	Q1903	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			
	Q1918	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX			
		RESISTOR				
	R101	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R102	1-216-083-00	RES-CHIP	27K	5%	1/10W
	R103	1-216-083-00	RES-CHIP	27K	5%	1/10W
	R104	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R112	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
	R113	1-216-097-11	RES-CHIP	100K	5%	1/10W
	R114	1-216-121-11	RES-CHIP	1M	5%	1/10W
	R115	1-216-073-00	RES-CHIP	10K	5%	1/10W
	R116	1-216-073-00	RES-CHIP	10K	5%	1/10W
	R117	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R118	1-208-774-11	METAL CHIP	470	0.50%	1/10W
	R119	1-208-776-11	METAL CHIP	560	0.50%	1/10W
	R440	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R441	1-216-100-00	RES-CHIP	130K	5%	1/10W
	R442	1-216-088-00	RES-CHIP	43K	5%	1/10W
	R443	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
	R444	1-216-089-11	RES-CHIP	47K	5%	1/10W
	R445	1-216-085-00	RES-CHIP	33K	5%	1/10W
	R446	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
	R1403	1-216-121-11	RES-CHIP	1M	5%	1/10W
	R1404	1-216-295-11	SHORT			
	R1406	1-216-121-11	RES-CHIP	1M	5%	1/10W
	R1407	1-216-073-00	RES-CHIP	10K	5%	1/10W
	R1408	1-216-295-11	SHORT			
	R1409	1-216-295-11	SHORT			
	R1410	1-216-081-00	RES-CHIP	22K	5%	1/10W
	R1411	1-216-073-00	RES-CHIP	10K	5%	1/10W
	R1412	1-216-089-11	RES-CHIP	47K	5%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

AK A

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R1413	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1415	1-216-025-11	RES-CHIP	100	5%	1/10W
R1416	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1417	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1418	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1421	1-216-025-11	RES-CHIP	100	5%	1/10W
R1422	1-216-033-00	RES-CHIP	220	5%	1/10W
R1423	1-216-033-00	RES-CHIP	220	5%	1/10W
R1424	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1425	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1427	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1458	1-216-033-00	RES-CHIP	220	5%	1/10W
R1459	1-216-033-00	RES-CHIP	220	5%	1/10W
R1461	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1462	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1464	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1465	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1466	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1467	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1469	1-249-389-11	CARBON	4.7	5%	1/4W
R1470	1-249-389-11	CARBON	4.7	5%	1/4W
R1471	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1472	1-216-077-91	RES-CHIP	15K	5%	1/10W
R1473	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1474	1-216-033-00	RES-CHIP	220	5%	1/10W
R1475	1-216-033-00	RES-CHIP	220	5%	1/10W
R1480	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1481	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1482	1-216-295-11	SHORT			
R1483	1-216-295-11	SHORT			
R1486	1-216-033-00	RES-CHIP	220	5%	1/10W
R1487	1-216-033-00	RES-CHIP	220	5%	1/10W
R1902	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1904	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1906	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1907	1-216-033-00	RES-CHIP	220	5%	1/10W
R2904	1-216-033-00	RES-CHIP	220	5%	1/10W
R2905	1-216-033-00	RES-CHIP	220	5%	1/10W
R2909	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2910	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2912	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2913	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2914	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2915	1-216-073-00	RES-CHIP	10K	5%	1/10W
R2916	1-216-073-00	RES-CHIP	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
		TUNER			
⚠ TU101	8-598-501-30	TUNER, FSS BTF-FA402			

A

*** A-1299-460-A A BOARD, COMPLETE**

The high-voltage leads associated with the FBT on the A board are not included and must be ordered separately. Order the following 3 leads when requesting this board:

	1-900-800-82	WIRE ASSY, FOCUS
	1-900-803-22	WIRE ASSY, G2 LEAD
	1-251-374-13	CAP ASSY, HIGH-VOLTAGE
	4-382-854-11	SCREW (M3X10), P, SW (+)

REF.NO.	PART NO.	DESCRIPTION	VALUES		
		CAPACITOR			
C001	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C003	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C005	1-117-534-91	ELECT	1µF	20%	100V
C009	1-117-493-91	ELECT	47µF	20%	25V
C010	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C012	1-163-010-11	CERAMIC CHIP	0.0012µF	10%	50V
C013	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C014	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C023	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C028	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
C029	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
C035	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C036	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C037	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C038	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C039	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C040	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C051	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C053	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C056	1-163-243-11	CERAMIC CHIP	47pF	5%	50V
C061	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C062	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
C063	1-117-506-91	ELECT	470µF	20%	35V
C068	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C071	1-117-512-91	ELECT	22µF	20%	50V
C072	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C075	1-107-823-11	CERAMIC CHIP	0.47µF	10%	16V
C301	1-136-189-00	MYLAR	0.1µF	5%	63V
C305	1-163-233-11	CERAMIC CHIP	18pF	5%	50V
C306	1-163-233-11	CERAMIC CHIP	18pF	5%	50V
C307	1-163-233-11	CERAMIC CHIP	18pF	5%	50V
C308	1-163-001-11	CERAMIC CHIP	220pF	10%	50V

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
C309	1-136-169-00	FILM	0.22µF	5%	50V
C310	1-117-493-91	ELECT	47µF	20%	25V
C311	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C312	1-117-537-91	ELECT	4.7µF	20%	100V
C314	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C316	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C318	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C319	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C320	1-117-487-91	ELECT	470µF	20%	16V
C321	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C322	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C323	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C326	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C327	1-117-537-91	ELECT	4.7µF	20%	100V
C329	1-165-319-11	CERAMIC CHIP	0.1µF		50V
C331	1-117-511-91	ELECT	10µF	20%	50V
C332	1-117-534-91	ELECT	1µF	20%	100V
C333	1-102-129-00	CERAMIC	0.01µF	10%	50V
C334	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C335	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C336	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C338	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C339	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C340	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C343	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C344	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C345	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C346	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C351	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C352	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C355	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C357	1-117-513-91	ELECT	47µF	20%	50V
C359	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C361	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C374	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C375	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C382	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C384	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C393	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C394	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C395	1-117-493-91	ELECT	47µF	20%	25V
C396	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C397	1-117-493-91	ELECT	47µF	20%	25V
C398	1-117-535-91	ELECT	2.2µF	20%	100V
C501	1-102-110-00	CERAMIC	220pF	10%	50V
C502	1-117-532-91	ELECT	0.47µF	20%	100V
C503	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C504	1-102-228-00	CERAMIC	470pF	10%	500V
C505	1-102-228-00	CERAMIC	470pF	10%	500V
C506	1-106-383-00	MYLAR	0.047µF	10%	200V
⚠ C507	1-162-116-00	CERAMIC	680pF	10%	2KV
C508	1-102-228-00	CERAMIC	470pF	10%	500V
C509	1-162-116-00	CERAMIC	680pF	10%	2KV
C510	1-137-150-11	MYLAR	0.01µF	10%	100V
⚠ C511	1-113-582-11	FILM	0.017µF	3%	2KV
C512	1-129-709-91	FILM	0.0039µF	5%	630V
⚠ C513	1-129-722-00	FILM	0.047µF	5%	630V
⚠ C514	1-109-844-11	FILM	0.68µF	5%	250V
C515	1-104-987-11	MYLAR	0.001µF	10%	100V
C516	1-115-522-11	FILM	1µF	5%	250V
C517	1-117-559-91	ELECT	2.2µF	20%	250V
C518	1-106-387-00	MYLAR	0.068µF	10%	200V
C519	1-107-612-11	CERAMIC	100pF	5%	500V
C520	1-164-646-11	CERAMIC	2200pF	10%	500V
C521	1-163-010-11	CERAMIC CHIP	0.0012µF	10%	50V
C522	1-117-534-91	ELECT	1µF	20%	100V
C525	1-102-244-00	CERAMIC	220pF	10%	500V
C526	1-117-563-91	ELECT	22µF	20%	250V
C527	1-162-116-00	CERAMIC	680pF	10%	2KV
C528	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C529	1-117-512-91	ELECT	22µF	20%	50V
C530	1-137-475-11	MYLAR	0.0022µF	5%	63V
C531	1-117-512-91	ELECT	22µF	20%	50V
C532	1-117-512-91	ELECT	22µF	20%	50V
C534	1-117-513-91	ELECT	47µF	20%	50V
C537	1-117-506-91	ELECT	470µF	20%	35V
C539	1-117-506-91	ELECT	470µF	20%	35V
C540	1-104-710-11	ELECT	22µF		160V
C541	1-117-539-91	ELECT	22µF	20%	100V
C543	1-104-666-11	ELECT	220µF	20%	25V
C544	1-129-718-00	FILM	0.022µF	5%	630V
C545	1-106-387-00	MYLAR	0.068µF	10%	200V
C546	1-104-987-11	MYLAR	0.001µF	10%	100V
C547	1-104-987-11	MYLAR	0.001µF	10%	100V
C548	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C549	1-106-375-12	MYLAR	0.022µF	20%	200V
C550	1-130-061-91	FILM	0.0015µF	5%	630V
C551	1-117-557-91	ELECT	0.47µF	20%	250V
C552	1-102-244-00	CERAMIC	220pF	10%	500V
C553	1-107-846-11	FILM	0.1µF	5%	250V
⚠ C554	1-136-065-00	FILM	0.0027µF	3%	2KV
C561	1-117-513-91	ELECT	47µF	20%	50V
C563	1-117-504-91	ELECT	220µF	20%	35V
C564	1-117-534-91	ELECT	1µF	20%	100V

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	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	C565	1-117-516-91	ELECT	220µF	20%	50V
	C568	1-115-230-91	MYLAR	0.22µF	5%	63V
	C571	1-117-498-91	ELECT	1000µF	20%	25V
	C572	1-117-498-91	ELECT	1000µF	20%	25V
	C599	1-117-487-91	ELECT	470µF	20%	16V
	C1002	1-117-511-91	ELECT	10µF	20%	50V
	C1003	1-117-535-91	ELECT	2.2µF	20%	100V
	C1004	1-117-534-91	ELECT	1µF	20%	100V
	C1101	1-117-500-51	ELECT	2200µF	20%	25V
	C1103	1-117-512-91	ELECT	22µF	20%	50V
	C1104	1-117-493-91	ELECT	47µF	20%	25V
	C1105	1-117-493-91	ELECT	47µF	20%	25V
	C1106	1-117-511-91	ELECT	10µF	20%	50V
	C1107	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
	C1108	1-117-512-91	ELECT	22µF	20%	50V
	C1109	1-117-511-91	ELECT	10µF	20%	50V
	C1110	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
	C1111	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
	C1112	1-163-227-11	CERAMIC CHIP	10pF	0.50pF	50V
	C1117	1-117-534-91	ELECT	1µF	20%	100V
	C1118	1-117-534-91	ELECT	1µF	20%	100V
	C1355	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
	C1356	1-117-511-91	ELECT	10µF	20%	50V
	C1357	1-164-005-11	CERAMIC CHIP	0.47µF		16V
	C1358	1-117-496-91	ELECT	330µF	20%	25V
	C1359	1-163-038-11	CERAMIC CHIP	0.1µF		25V
	C1360	1-163-031-11	CERAMIC CHIP	0.01µF		50V
	C1361	1-163-241-11	CERAMIC CHIP	39pF	5%	50V
	C1362	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
	C1363	1-163-031-11	CERAMIC CHIP	0.01µF		50V
	C1367	1-163-038-11	CERAMIC CHIP	0.1µF		25V
	C1369	1-163-038-11	CERAMIC CHIP	0.1µF		25V
	C1370	1-117-511-91	ELECT	10µF	20%	50V
	C1371	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
	C1372	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
	C1373	1-163-133-00	CERAMIC CHIP	470pF	5%	50V

CONNECTOR

*	CN270	1-774-105-11	CONNECTOR, BOARD TO BOARD 15P
*	CN271	1-774-105-11	CONNECTOR, BOARD TO BOARD 15P
*	CN272	1-691-616-21	CONNECTOR, BOARD TO BOARD 15P
*	CN301	1-508-784-00	PIN,CONNECTOR (5MM PITCH) 1P
*	CN351	1-564-509-11	PLUG,CONNECTOR 6P
*	CN501	1-580-798-11	CONNECTOR PIN (DY) 6P
*	CN503	1-564-508-11	PLUG,CONNECTOR 5P
*	CN1001	1-564-508-11	PLUG,CONNECTOR 5P
*	CN1002	1-564-506-11	PLUG,CONNECTOR 3P
*	CN1101	1-900-804-32	PLUG,CONNECTOR 12P
*	CN1102	1-564-507-11	PLUG,CONNECTOR 4P
*	CN1231	1-564-512-11	PLUG,CONNECTOR 9P
	CN1643	1-695-915-11	TAB (CONTACT)
*	CN1941	1-564-511-11	PLUG,CONNECTOR 8P
*	CN1942	1-564-508-11	PLUG,CONNECTOR 5P

DIODE

	D001	8-719-991-33	DIODE 1SS133T-77
	D002	8-719-109-89	DIODE MTZJ-T-77-5.6C
	D003	8-719-991-33	DIODE 1SS133T-77
	D004	8-719-110-17	DIODE MTZJ-T-77-10B
	D011	8-719-109-72	DIODE MTZJ-T-77-3.9B
	D012	8-719-991-33	DIODE 1SS133T-77
	D013	8-719-991-33	DIODE 1SS133T-77
	D014	8-719-991-33	DIODE 1SS133T-77
	D015	8-719-991-33	DIODE 1SS133T-77
	D016	8-719-991-33	DIODE 1SS133T-77
	D018	8-719-073-01	DIODE MA111-TX
	D019	8-719-073-01	DIODE MA111-TX
	D301	8-719-073-01	DIODE MA111-TX
	D302	8-719-991-33	DIODE 1SS133T-77
	D303	8-719-921-44	DIODE MTZJ-T-77-5.1C
	D368	8-719-991-33	DIODE 1SS133T-77
	D384	8-719-921-80	DIODE MTZJ-T-77-11B
	D388	8-719-921-80	DIODE MTZJ-T-77-11B
	D501	8-719-109-89	DIODE MTZJ-T-77-5.6C
	D502	8-719-945-80	DIODE ERC06-15S
⚠	D503	8-719-945-80	DIODE ERC06-15S
	D504	8-719-900-26	DIODE ERD29-08J
	D505	8-719-075-33	DIODE 1N4003GA
	D506	8-719-075-33	DIODE 1N4003GA
	D507	8-719-991-33	DIODE 1SS133T-77
	D510	8-719-300-33	DIODE ERB44-06TP1
	D511	8-719-970-87	DIODE ERA38-06TP1
	D512	8-719-970-87	DIODE ERA38-06TP1
	D513	8-719-110-41	DIODE MTZJ-T-77-15B
⚠	D515	8-719-075-41	DIODE PR1004GT
	D516	8-719-991-33	DIODE 1SS133T-77
	D518	8-719-991-33	DIODE 1SS133T-77
⚠	D519	8-719-302-43	DIODE EL1Z-V1
	D520	8-719-991-33	DIODE 1SS133T-77
	D521	8-719-921-63	DIODE MTZJ-T-77-7.5X
	D522	8-719-991-33	DIODE 1SS133T-77
	D523	8-719-109-69	DIODE MTZJ-T-77-3.6B
	D524	8-719-109-97	DIODE MTZJ-T-77-6.8B
⚠	D530	8-719-075-32	DIODE PR1504GA
	D531	8-719-075-32	DIODE PR1504GA
	D534	8-719-075-41	DIODE PR1004GT
	D535	8-719-073-01	DIODE MA111-TX
	D536	8-719-073-01	DIODE MA111-TX

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
D561	8-719-075-33	DIODE 1N4003GA			
D1003	8-719-110-17	DIODE MTZJ-T-77-10B			
D1004	8-719-110-17	DIODE MTZJ-T-77-10B			
D1101	8-719-110-17	DIODE MTZJ-T-77-10B			
D1102	8-719-982-24	DIODE MTZJ-T-77-33A			
D1103	8-719-109-89	DIODE MTZJ-T-77-5.6C			
D1104	8-719-110-17	DIODE MTZJ-T-77-10B			
D1301	8-719-073-01	DIODE MA111-TX			
D1302	8-719-991-33	DIODE 1SS133T-77			
D1303	8-719-073-01	DIODE MA111-TX			
D1304	8-719-073-01	DIODE MA111-TX			
D1305	8-719-073-01	DIODE MA111-TX			
D1306	8-719-073-01	DIODE MA111-TX			
	FERRITE BEAD				
FB501	1-410-397-21	FERRITE	1.1µH		
FB502	1-410-397-21	FERRITE	1.1µH		
FB503	1-410-397-21	FERRITE	1.1µH		
	IC				
IC001	8-752-907-69	IC CXP85856A-030S			
IC002	8-759-675-64	IC M24C08-MN6T			
IC351	8-759-710-86	IC NJM2233BM(TE2)			
IC352	8-752-080-75	IC CXA2039M-T6			
IC353	8-759-462-91	IC TA1226N			
IC354	8-752-082-49	IC CXA2119M-T6			
IC355	8-752-090-40	IC CXA2135S			
IC501	8-759-700-07	IC NJM2903M-TE2			
⚠ IC561	8-759-192-71	IC STV9379			
IC1001	8-752-058-68	IC CXA1315M-T4			
	CHIP CONDUCTOR				
JR001	1-216-295-11	SHORT			
JR002	1-216-295-11	SHORT			
JR003	1-216-295-11	SHORT			
JR004	1-216-049-11	RES-CHIP	1K	5%	1/10W
JR051	1-216-295-11	SHORT			
JR053	1-216-295-11	SHORT			
JR054	1-216-295-11	SHORT			
JR4120	1-216-295-11	SHORT			
	COIL				
L001	1-414-857-11	INDUCTOR	100µH		
L002	1-414-857-11	INDUCTOR	100µH		
L003	1-414-856-11	INDUCTOR	10µH		
L004	1-414-856-11	INDUCTOR	10µH		
L301	1-414-857-11	INDUCTOR	100µH		
L302	1-414-856-11	INDUCTOR	10µH		
L351	1-414-186-31	INDUCTOR	33µH		

REF.NO.	PART NO.	DESCRIPTION	VALUES
L501	1-406-677-11	INDUCTOR	10mH
L502	1-412-552-11	INDUCTOR	2.2mH
L503	1-406-677-11	INDUCTOR	10mH
L504	1-406-677-11	INDUCTOR	10mH
L505	1-406-978-11	INDUCTOR	150µH
L511	1-411-189-11	INDUCTOR	15mH
L517	1-412-552-11	INDUCTOR	2.2mH
L1101	1-414-857-11	INDUCTOR	100µH
L1102	1-414-856-11	INDUCTOR	10µH
L1351	1-414-856-11	INDUCTOR	10µH
L1352	1-412-756-21	INDUCTOR	56µH
	TRANSISTOR		
Q001	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q002	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q003	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q004	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q007	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q011	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q012	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q013	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q014	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q015	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q016	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q017	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q103	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q104	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q301	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q303	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q304	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q305	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q306	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q307	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q310	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q311	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q313	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q314	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q315	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q351	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q352	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q359	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q361	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q362	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q364	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q369	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q370	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

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REF.NO.	PART NO.	DESCRIPTION	VALUES
Q501	8-729-140-50	TRANSISTOR 2SC3209LK-TP	
⚠ Q502	8-729-045-26	TRANSISTOR 2SD2580-YB	
Q503	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q504	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q507	8-729-043-95	TRANSISTOR 2SC3840K	
⚠ Q511	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
⚠ Q512	8-729-809-29	TRANSISTOR 2SC4159-E	
Q561	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q562	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1102	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA	
Q1103	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1301	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1302	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1303	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1352	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1353	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1354	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	

RESISTOR

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R001	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R002	1-216-049-11	RES-CHIP	1K	5%	1/10W
R003	1-216-097-11	RES-CHIP	100K	5%	1/10W
R004	1-216-121-11	RES-CHIP	1M	5%	1/10W
R006	1-249-409-11	CARBON	220	5%	1/4W
R007	1-216-073-00	RES-CHIP	10K	5%	1/10W
R008	1-249-409-11	CARBON	220	5%	1/4W
R009	1-216-073-00	RES-CHIP	10K	5%	1/10W
R010	1-216-041-00	RES-CHIP	470	5%	1/10W
R011	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R012	1-216-033-00	RES-CHIP	220	5%	1/10W
R013	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R014	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R015	1-216-073-00	RES-CHIP	10K	5%	1/10W
R016	1-216-073-00	RES-CHIP	10K	5%	1/10W
R019	1-249-425-11	CARBON	4.7K	5%	1/4W
R020	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R022	1-249-429-11	CARBON	10K	5%	1/4W
R023	1-216-089-11	RES-CHIP	47K	5%	1/10W
R025	1-216-033-00	RES-CHIP	220	5%	1/10W
R026	1-216-121-11	RES-CHIP	1M	5%	1/10W
R027	1-216-049-11	RES-CHIP	1K	5%	1/10W
R028	1-249-429-11	CARBON	10K	5%	1/4W
R029	1-216-025-11	RES-CHIP	100	5%	1/10W
R030	1-249-425-11	CARBON	4.7K	5%	1/4W
R031	1-249-409-11	CARBON	220	5%	1/4W
R032	1-216-033-00	RES-CHIP	220	5%	1/10W
R036	1-216-049-11	RES-CHIP	1K	5%	1/10W
R037	1-216-049-11	RES-CHIP	1K	5%	1/10W
R038	1-216-049-11	RES-CHIP	1K	5%	1/10W
R039	1-247-807-31	CARBON	100	5%	1/4W
R040	1-249-409-11	CARBON	220	5%	1/4W
R041	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R042	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R043	1-216-033-00	RES-CHIP	220	5%	1/10W
R044	1-216-049-11	RES-CHIP	1K	5%	1/10W
R045	1-249-409-11	CARBON	220	5%	1/4W
R046	1-249-409-11	CARBON	220	5%	1/4W
R047	1-249-417-11	CARBON	1K	5%	1/4W
R048	1-249-417-11	CARBON	1K	5%	1/4W
R049	1-249-417-11	CARBON	1K	5%	1/4W
R050	1-249-409-11	CARBON	220	5%	1/4W
R051	1-249-409-11	CARBON	220	5%	1/4W
R052	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R053	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R054	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R055	1-216-097-11	RES-CHIP	100K	5%	1/10W
R056	1-216-033-00	RES-CHIP	220	5%	1/10W
R057	1-249-417-11	CARBON	1K	5%	1/4W
R058	1-216-041-00	RES-CHIP	470	5%	1/10W
R060	1-216-073-00	RES-CHIP	10K	5%	1/10W
R061	1-216-073-00	RES-CHIP	10K	5%	1/10W
R062	1-216-073-00	RES-CHIP	10K	5%	1/10W
R063	1-216-073-00	RES-CHIP	10K	5%	1/10W
R064	1-249-409-11	CARBON	220	5%	1/4W
R065	1-249-409-11	CARBON	220	5%	1/4W
R066	1-249-409-11	CARBON	220	5%	1/4W
R067	1-249-413-11	CARBON	470	5%	1/4W
R068	1-249-409-11	CARBON	220	5%	1/4W
R069	1-249-409-11	CARBON	220	5%	1/4W
R070	1-249-421-11	CARBON	2.2K	5%	1/4W
R071	1-249-409-11	CARBON	220	5%	1/4W
R072	1-216-033-00	RES-CHIP	220	5%	1/10W
R073	1-216-033-00	RES-CHIP	220	5%	1/10W
R074	1-216-033-00	RES-CHIP	220	5%	1/10W
R075	1-216-033-00	RES-CHIP	220	5%	1/10W
R076	1-216-033-00	RES-CHIP	220	5%	1/10W
R077	1-216-033-00	RES-CHIP	220	5%	1/10W
R078	1-249-417-11	CARBON	1K	5%	1/4W
R079	1-216-033-00	RES-CHIP	220	5%	1/10W
R080	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R081	1-216-025-11	RES-CHIP	100	5%	1/10W
R082	1-216-025-11	RES-CHIP	100	5%	1/10W
R083	1-249-429-11	CARBON	10K	5%	1/4W
R084	1-216-049-11	RES-CHIP	1K	5%	1/10W
R085	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R086	1-216-073-00	RES-CHIP	10K	5%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R087	1-249-409-11	CARBON	220	5%	1/4W
R089	1-216-073-00	RES-CHIP	10K	5%	1/10W
R090	1-216-033-00	RES-CHIP	220	5%	1/10W
R092	1-249-429-11	CARBON	10K	5%	1/4W
R093	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R096	1-216-033-00	RES-CHIP	220	5%	1/10W
R097	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R099	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R106	1-216-081-00	RES-CHIP	22K	5%	1/10W
R107	1-216-081-00	RES-CHIP	22K	5%	1/10W
R108	1-216-081-00	RES-CHIP	22K	5%	1/10W
R109	1-216-081-00	RES-CHIP	22K	5%	1/10W
R131	1-216-037-00	RES-CHIP	330	5%	1/10W
R132	1-216-113-00	RES-CHIP	470K	5%	1/10W
R133	1-216-037-00	RES-CHIP	330	5%	1/10W
R135	1-216-073-00	RES-CHIP	10K	5%	1/10W
R136	1-216-073-00	RES-CHIP	10K	5%	1/10W
R137	1-216-049-11	RES-CHIP	1K	5%	1/10W
R304	1-216-033-00	RES-CHIP	220	5%	1/10W
R305	1-249-409-11	CARBON	220	5%	1/4W
R306	1-249-409-11	CARBON	220	5%	1/4W
R308	1-216-049-11	RES-CHIP	1K	5%	1/10W
R309	1-216-295-11	SHORT			
R310	1-216-049-11	RES-CHIP	1K	5%	1/10W
R311	1-216-073-00	RES-CHIP	10K	5%	1/10W
R312	1-216-295-11	SHORT			
R313	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R314	1-216-073-00	RES-CHIP	10K	5%	1/10W
R315	1-216-073-00	RES-CHIP	10K	5%	1/10W
R316	1-216-073-00	RES-CHIP	10K	5%	1/10W
R317	1-216-041-00	RES-CHIP	470	5%	1/10W
R319	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R320	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R321	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R324	1-216-073-00	RES-CHIP	10K	5%	1/10W
R325	1-216-033-00	RES-CHIP	220	5%	1/10W
R326	1-216-085-00	RES-CHIP	33K	5%	1/10W
R327	1-216-033-00	RES-CHIP	220	5%	1/10W
R330	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R331	1-216-075-00	RES-CHIP	12K	5%	1/10W
R332	1-216-033-00	RES-CHIP	220	5%	1/10W
R333	1-216-041-00	RES-CHIP	470	5%	1/10W
R334	1-216-033-00	RES-CHIP	220	5%	1/10W
R335	1-216-033-00	RES-CHIP	220	5%	1/10W
R336	1-216-049-11	RES-CHIP	1K	5%	1/10W
R337	1-216-347-11	METAL OXIDE	0.68	5%	1W
R340	1-216-105-91	RES-CHIP	220K	5%	1/10W
R341	1-216-073-00	RES-CHIP	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R342	1-216-097-11	RES-CHIP	100K	5%	1/10W
R343	1-216-093-91	RES-CHIP	68K	5%	1/10W
R344	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R346	1-216-023-00	RES-CHIP	82	5%	1/10W
R347	1-216-041-00	RES-CHIP	470	5%	1/10W
R348	1-216-033-00	RES-CHIP	220	5%	1/10W
R349	1-216-041-00	RES-CHIP	470	5%	1/10W
R350	1-247-807-31	CARBON	100	5%	1/4W
R352	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
R353	1-216-295-11	SHORT			
R354	1-216-073-00	RES-CHIP	10K	5%	1/10W
R355	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R356	1-216-025-11	RES-CHIP	100	5%	1/10W
R358	1-216-295-11	SHORT			
R359	1-216-073-00	RES-CHIP	10K	5%	1/10W
R360	1-249-409-11	CARBON	220	5%	1/4W
R361	1-216-049-11	RES-CHIP	1K	5%	1/10W
R362	1-216-073-00	RES-CHIP	10K	5%	1/10W
R370	1-216-049-11	RES-CHIP	1K	5%	1/10W
R372	1-216-097-11	RES-CHIP	100K	5%	1/10W
R373	1-216-121-11	RES-CHIP	1M	5%	1/10W
R374	1-216-041-00	RES-CHIP	470	5%	1/10W
R375	1-216-049-11	RES-CHIP	1K	5%	1/10W
R376	1-216-025-11	RES-CHIP	100	5%	1/10W
R378	1-216-083-00	RES-CHIP	27K	5%	1/10W
R383	1-216-025-11	RES-CHIP	100	5%	1/10W
R384	1-216-037-00	RES-CHIP	330	5%	1/10W
R385	1-249-425-11	CARBON	4.7K	5%	1/4W
R386	1-216-049-11	RES-CHIP	1K	5%	1/10W
R387	1-216-037-00	RES-CHIP	330	5%	1/10W
R398	1-216-095-00	RES-CHIP	82K	5%	1/10W
R501	1-216-041-00	RES-CHIP	470	5%	1/10W
R502	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R503	1-249-425-11	CARBON	4.7K	5%	1/4W
R504	1-216-455-21	METAL OXIDE	560	5%	2W
R505	1-249-433-11	CARBON	22K	5%	1/4W
R506	1-215-861-00	METAL OXIDE	47	5%	1W
R507	1-249-401-11	CARBON	47	5%	1/4W
R508	1-249-425-11	CARBON	4.7K	5%	1/4W
R509	1-260-324-11	CARBON	470	5%	1/2W
⚠ R510	1-215-883-11	METAL OXIDE	33	5%	2W
R512	1-215-910-00	METAL OXIDE	68	5%	3W
R514	1-216-081-00	RES-CHIP	22K	5%	1/10W
R515	1-208-812-11	METAL CHIP	18K	0.50%	1/10W
R516	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R517	1-249-417-11	CARBON	1K	5%	1/4W
R518	1-216-073-00	RES-CHIP	10K	5%	1/10W
R519	1-249-413-11	CARBON	470	5%	1/4W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

A component identified by this ⋈ symbol indicates that it has been carefully factory-selected to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R520	1-215-907-11	METAL OXIDE	22	5%	3W
R521	1-216-081-00	RES-CHIP	22K	5%	1/10W
R523	1-208-814-91	METAL CHIP	22K	0.50%	1/10W
R524	1-249-429-11	CARBON	10K	5%	1/4W
R525	1-208-804-11	METAL CHIP	8.2K	0.50%	1/10W
R526	1-215-880-00	METAL OXIDE	10	5%	2W
R527	1-216-097-11	RES-CHIP	100K	5%	1/10W
R528	1-208-814-91	METAL CHIP	22K	0.50%	1/10W
R529	1-208-814-91	METAL CHIP	22K	0.50%	1/10W
⋈⚠R530	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
⋈⚠R531	1-208-836-11	METAL CHIP	180K	0.50%	1/10W
R532	1-208-760-11	METAL CHIP	120	0.50%	1/10W
R533	1-215-902-11	METAL OXIDE	47K	5%	1W
⚠ R536	1-260-288-11	CARBON	0.47	5%	1/2W
⚠ R537	1-260-288-11	CARBON	0.47	5%	1/2W
R538	1-247-887-00	CARBON	220K	5%	1/4W
R539	1-215-891-11	METAL OXIDE	680	5%	2W
R540	1-216-099-00	RES-CHIP	120K	5%	1/10W
R541	1-215-921-11	METAL OXIDE	4.7K	5%	3W
R542	1-215-920-11	METAL OXIDE	3.3K	5%	3W
⚠ R543	1-249-377-11	CARBON	0.47	5%	1/4W
R544	1-216-113-00	RES-CHIP	470K	5%	1/10W
⚠ R545	1-249-387-11	CARBON	3.3	5%	1/4W
R546	1-215-457-00	METAL	33K	1%	1/4W
R547	1-215-457-00	METAL	33K	1%	1/4W
R549	1-215-437-00	METAL	4.7K	1%	1/4W
⚠ R550	1-249-377-11	CARBON	0.47	5%	1/4W
R551	1-215-873-00	METAL OXIDE	4.7K	5%	1W
R552	1-216-455-21	METAL OXIDE	560	5%	2W
⚠ R553	1-260-288-11	CARBON	0.47	5%	1/2W
R554	1-215-876-00	METAL OXIDE	15K	5%	1W
R555	1-249-441-11	CARBON	100K	5%	1/4W
R556	1-249-441-11	CARBON	100K	5%	1/4W
R557	1-249-441-11	CARBON	100K	5%	1/4W
R559	1-216-017-91	RES-CHIP	47	5%	1/10W
R561	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R563	1-214-798-21	METAL	1.8	1%	1/2W
R565	1-215-889-00	METAL OXIDE	330	5%	2W
R566	1-208-802-11	METAL CHIP	6.8K	0.50%	1/10W
⚠ R567	1-249-385-11	CARBON	2.2	5%	1/4W
R568	1-208-802-11	METAL CHIP	6.8K	0.50%	1/10W
R569	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
R570	1-216-097-11	RES-CHIP	100K	5%	1/10W
R571	1-216-081-00	RES-CHIP	22K	5%	1/10W
R572	1-216-081-00	RES-CHIP	22K	5%	1/10W
R573	1-216-097-11	RES-CHIP	100K	5%	1/10W
R574	1-214-798-21	METAL	1.8	1%	1/2W
R576	1-215-907-11	METAL OXIDE	22	5%	3W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R577	1-216-049-11	RES-CHIP	1K	5%	1/10W
R578	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R580	1-249-441-11	CARBON	100K	5%	1/4W
R581	1-247-887-00	CARBON	220K	5%	1/4W
R582	1-249-421-11	CARBON	2.2K	5%	1/4W
R1001	1-247-807-31	CARBON	100	5%	1/4W
R1002	1-247-807-31	CARBON	100	5%	1/4W
R1003	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1005	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1006	1-216-025-11	RES-CHIP	100	5%	1/10W
R1007	1-216-025-11	RES-CHIP	100	5%	1/10W
R1011	1-249-387-11	CARBON	3.3	5%	1/4W
R1012	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1030	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1031	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1101	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1102	1-215-900-11	METAL OXIDE	22K	5%	2W
R1103	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1104	1-216-083-00	RES-CHIP	27K	5%	1/10W
R1105	1-216-083-00	RES-CHIP	27K	5%	1/10W
R1106	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1107	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1108	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1109	1-216-017-91	RES-CHIP	47	5%	1/10W
R1110	1-216-017-91	RES-CHIP	47	5%	1/10W
R1111	1-216-017-91	RES-CHIP	47	5%	1/10W
R1113	1-249-417-11	CARBON	1K	5%	1/4W
R1114	1-249-417-11	CARBON	1K	5%	1/4W
R1115	1-216-041-00	RES-CHIP	470	5%	1/10W
R1117	1-249-425-11	CARBON	4.7K	5%	1/4W
R1118	1-249-425-11	CARBON	4.7K	5%	1/4W
R1120	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R1121	1-216-037-00	RES-CHIP	330	5%	1/10W
R1122	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1123	1-216-037-00	RES-CHIP	330	5%	1/10W
R1125	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R1126	1-216-037-00	RES-CHIP	330	5%	1/10W
R1127	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1128	1-216-037-00	RES-CHIP	330	5%	1/10W
R1129	1-216-295-11	SHORT			
R1130	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R1301	1-249-401-11	CARBON	47	5%	1/4W
R1302	1-249-401-11	CARBON	47	5%	1/4W
R1303	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1304	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R1305	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R1306	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1313	1-216-295-11	SHORT			

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

A UY

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R1314	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1315	1-216-025-11	RES-CHIP	100	5%	1/10W
R1316	1-216-091-00	RES-CHIP	56K	5%	1/10W
R1317	1-216-105-91	RES-CHIP	220K	5%	1/10W
R1318	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1319	1-260-290-71	CARBON	0.68	5%	1/2W
R1320	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1321	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1322	1-216-047-91	RES-CHIP	820	5%	1/10W
R1323	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1324	1-216-295-11	SHORT			
R1325	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1330	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1333	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1337	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1358	1-216-025-11	RES-CHIP	100	5%	1/10W
R1359	1-216-025-11	RES-CHIP	100	5%	1/10W
R1360	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1361	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1362	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1363	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1364	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1365	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1366	1-216-107-00	RES-CHIP	270K	5%	1/10W
R1369	1-216-093-91	RES-CHIP	68K	5%	1/10W
R1371	1-216-295-11	SHORT			
R1373	1-216-025-11	RES-CHIP	100	5%	1/10W
R1374	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1385	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1387	1-249-429-11	CARBON	10K	5%	1/4W
R1389	1-216-025-11	RES-CHIP	100	5%	1/10W
R1390	1-249-417-11	CARBON	1K	5%	1/4W
R1391	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1392	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1395	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1397	1-216-025-11	RES-CHIP	100	5%	1/10W
R1398	1-216-033-00	RES-CHIP	220	5%	1/10W

SWITCH

S501	1-572-707-11	SWITCH LEVER
S502	1-572-707-11	SWITCH LEVER

TRANSFORMER

	T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE
⚠	T502	1-426-981-11	TRANSFORMER, FERRITE (PMT)
⚠	T503	1-453-310-11	FBT ASSY NX-4521//X4J4
⚠	T504	1-424-584-11	TRANSFORMER, DYNAMIC FOCUS
⚠	T505	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR

REF.NO.	PART NO.	DESCRIPTION	VALUES		

THERMISTOR

TH501	1-800-193-00	THERMISTOR

TUNER

⚠	TU102	8-598-542-20	TUNER, FSS BTF-WA412

CRYSTAL

X001	1-578-774-11	VIBRATOR, CRYSTAL
X301	1-579-973-11	VIBRATOR, CRYSTAL
X302	1-567-505-11	OSCILLATOR, CRYSTAL
X303	1-579-972-11	VIBRATOR, CRYSTAL

UY

*	**A-1394-942-A**	**UY BOARD, COMPLETE**

CAPACITOR

C201	1-128-551-11	ELECT	22µF	20%	25V
C202	1-128-551-11	ELECT	22µF	20%	25V
C203	1-128-551-11	ELECT	22µF	20%	25V
C204	1-117-534-91	ELECT	1µF	20%	100V
C205	1-117-534-91	ELECT	1µF	20%	100V
C231	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C232	1-117-512-91	ELECT	22µF	20%	50V
C233	1-128-551-11	ELECT	22µF	20%	25V
C234	1-117-534-91	ELECT	1µF	20%	100V
C235	1-117-534-91	ELECT	1µF	20%	100V
C236	1-128-551-11	ELECT	22µF	20%	25V
C237	1-117-534-91	ELECT	1µF	20%	100V
C238	1-117-534-91	ELECT	1µF	20%	100V
C241	1-117-506-91	ELECT	470µF	20%	35V
C242	1-117-532-91	ELECT	0.47µF	20%	100V
C243	1-117-532-91	ELECT	0.47µF	20%	100V
C244	1-117-532-91	ELECT	0.47µF	20%	100V
C245	1-117-532-91	ELECT	0.47µF	20%	100V
C264	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C268	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C269	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C272	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C273	1-128-551-11	ELECT	22µF	20%	25V
C277	1-128-551-11	ELECT	22µF	20%	25V
C278	1-128-551-11	ELECT	22µF	20%	25V
C279	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C281	1-128-551-11	ELECT	22µF	20%	25V
C284	1-117-506-91	ELECT	470µF	20%	35V
C286	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C287	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V

UY

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C1051	1-117-511-91	ELECT	10µF	20%	50V
C1053	1-117-486-91	ELECT	220µF	20%	16V
C1201	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C1202	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1203	1-117-534-91	ELECT	1µF	20%	100V
C1204	1-163-809-11	CERAMIC CHIP	0.047µF	10%	25V
C1209	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C1210	1-163-259-91	CERAMIC CHIP	220pF	5%	50V
C1211	1-128-551-11	ELECT	22µF	20%	25V
C1212	1-128-551-11	ELECT	22µF	20%	25V
C1213	1-117-506-91	ELECT	470µF	20%	35V
C1214	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1215	1-117-534-91	ELECT	1µF	20%	100V
C1262	1-216-081-00	RES-CHIP	22K	5%	1/10W
C2000	1-117-506-91	ELECT	470µF	20%	35V
C2002	1-128-551-11	ELECT	22µF	20%	25V
C2012	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2015	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C2045	1-163-237-11	CERAMIC CHIP	27pF	5%	50V
C2047	1-117-535-91	ELECT	2.2µF	20%	100V
C2048	1-117-511-91	ELECT	10µF	20%	50V
C2049	1-104-664-11	ELECT	47µF	20%	16V
C2056	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C2060	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C2062	1-104-664-11	ELECT	47µF	20%	16V
C2096	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C2097	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C2168	1-163-253-11	CERAMIC CHIP	120pF	5%	50V
C2201	1-117-512-91	ELECT	22µF	20%	50V
C2202	1-128-551-11	ELECT	22µF	20%	25V
C2203	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3301	1-104-664-11	ELECT	47µF	20%	25V
C3302	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3310	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C3311	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C3312	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3313	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3314	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C3315	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C3319	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3320	1-117-534-91	ELECT	1µF	20%	100V
C3321	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3322	1-163-231-11	CERAMIC CHIP	15pF	5%	50V
C3323	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3324	1-117-483-91	ELECT	1000µF	20%	10V
C3325	1-117-483-91	ELECT	1000µF	20%	10V
C3328	1-117-482-91	ELECT	470µF	20%	10V
C3329	1-104-664-11	ELECT	47µF	20%	16V

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C3330	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3331	1-104-664-11	ELECT	47µF	20%	16V
C3332	1-104-664-11	ELECT	47µF	20%	25V
C3334	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3340	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3342	1-163-009-11	CERAMIC CHIP	0.001µF	10%	50V
C3346	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C3347	1-117-534-91	ELECT	1µF	20%	100V
C3348	1-104-664-11	ELECT	47µF	20%	16V
C3349	1-163-249-11	CERAMIC CHIP	82pF	5%	50V
C3350	1-164-004-11	CERAMIC CHIP	0.1µF	10%	25V
C3352	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3353	1-117-534-91	ELECT	1µF	20%	100V
C3354	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3355	1-117-513-91	ELECT	47µF	20%	50V
C3356	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3357	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3358	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3359	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3360	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3361	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3362	1-117-513-91	ELECT	47µF	20%	50V
C3363	1-163-031-11	CERAMIC CHIP	0.01µF		50V
C3364	1-163-229-11	CERAMIC CHIP	12pF	5%	50V
C3365	1-163-133-00	CERAMIC CHIP	470pF	5%	50V
C3366	1-137-194-81	FILM	0.47µF	5%	50V
C3367	1-117-537-91	ELECT	4.7µF	20%	100V
C3368	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C3369	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C3370	1-109-889-11	ELECT	1µF	20%	50V
C3371	1-163-017-00	CERAMIC CHIP	.0047µF	10%	50V
C3372	1-164-005-11	CERAMIC CHIP	0.47µF		25V
C3385	1-117-506-91	ELECT	470µF	20%	35V
C3556	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3557	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3558	1-117-511-91	ELECT	10µF	20%	50V
C3559	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3560	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3561	1-117-511-91	ELECT	10µF	20%	50V
C3562	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3563	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3564	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3565	1-163-038-11	CERAMIC CHIP	0.1µF		25V
C3566	1-117-511-91	ELECT	10µF	20%	50V
C3567	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3568	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C3569	1-117-511-91	ELECT	10µF	20%	50V
C3570	1-117-511-91	ELECT	10µF	20%	50V

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	C3571	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C3573	1-163-037-11	CERAMIC CHIP	0.022µF	10%	50V
	C3574	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C3575	1-117-511-91	ELECT	10µF	20%	50V
	C3576	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C3577	1-117-511-91	ELECT	10µF	20%	50V
	C3578	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
	C3579	1-104-664-11	ELECT	47µF	20%	16V
		CONNECTOR				
*	CN261	1-564-510-11	PLUG,CONNECTOR 7P			
*	CN262	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P			
*	CN263	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P			
*	CN264	1-691-632-21	CONNECTOR, BOARD TO BOARD 15P			
*	CN265	1-764-333-11	PLUG,CONNECTOR 10P			
		DIODE				
	D201	8-719-032-47	DIODE MTZJ-T-9110			
	D202	8-719-032-47	DIODE MTZJ-T-9110			
	D203	8-719-032-47	DIODE MTZJ-T-9110			
	D204	8-719-032-47	DIODE MTZJ-T-9110			
	D205	8-719-032-47	DIODE MTZJ-T-9110			
	D231	8-719-032-47	DIODE MTZJ-T-9110			
	D232	8-719-032-47	DIODE MTZJ-T-9110			
	D233	8-719-032-47	DIODE MTZJ-T-9110			
	D234	8-719-032-47	DIODE MTZJ-T-9110			
	D235	8-719-032-47	DIODE MTZJ-T-9110			
	D236	8-719-032-47	DIODE MTZJ-T-9110			
	D237	8-719-032-47	DIODE MTZJ-T-9110			
	D238	8-719-032-47	DIODE MTZJ-T-9110			
	D239	8-719-032-47	DIODE MTZJ-T-9110			
	D245	8-719-157-94	DIODE RD3.3SB-T1			
	D246	8-719-157-94	DIODE RD3.3SB-T1			
	D247	8-719-157-94	DIODE RD3.3SB-T1			
	D248	8-719-157-94	DIODE RD3.3SB-T1			
	D250	8-719-157-94	DIODE RD3.3SB-T1			
	D261	8-719-032-47	DIODE MTZJ-T-9110			
	D902	8-719-032-47	DIODE MTZJ-T-9110			
	D910	8-719-032-47	DIODE MTZJ-T-9110			
	D911	8-719-032-47	DIODE MTZJ-T-9110			
	D912	8-719-032-47	DIODE MTZJ-T-9110			
	D1051	8-719-073-01	DIODE MA111-TX			
	D1052	8-719-073-01	DIODE MA111-TX			
	D2201	8-719-032-47	DIODE MTZJ-T-9110			
	D2202	8-719-032-47	DIODE MTZJ-T-9110			
	D2203	8-719-032-47	DIODE MTZJ-T-9110			

REF.NO.	PART NO.	DESCRIPTION	VALUES
	FERRITE BEAD		
FB3301	1-414-234-22	FERRITE	0µH
FB3302	1-414-234-22	FERRITE	0µH
	FILTER		
FL2001	1-239-847-11	FILTER, LOW PASS	
FL2002	1-239-847-11	FILTER, LOW PASS	
FL2004	1-239-847-11	FILTER, LOW PASS	
	IC		
IC261	8-752-066-69	IC CXA1845Q	
IC1051	8-752-058-68	IC CXA1315M-T4	
IC2006	8-759-358-38	IC NJM78M05DLA(TE1)	
IC3302	8-759-358-38	IC NJM78M05DLA(TE1)	
IC3303	8-759-655-57	IC SDA9288XE-B0121-GEG	
IC3304	8-752-086-80	IC CXA2019AQ-T4	
IC3305	8-759-378-17	IC TDA4662T-V3	
IC3308	8-759-932-69	IC BU4053BCF-T2	
IC3504	8-752-390-37	IC CXD2064Q-T6	
	JACK		
J231	1-774-748-11	TERMINAL BLOCK, S	
J232	1-750-517-11	JACK BLOCK, PIN 3P	
J233	1-750-516-11	JACK BLOCK, PIN 2P	
J234	1-750-517-11	JACK BLOCK, PIN 3P	
J236	1-774-358-11	JACK BLOCK, PIN	
J902	1-764-143-11	JACK	
J903	1-764-143-11	JACK	
J904	1-764-143-11	JACK	
J905	1-764-143-11	JACK	
	CHIP CONDUCTOR		
JR1001	1-216-295-11	SHORT	
JR1002	1-216-295-11	SHORT	
JR1003	1-216-295-11	SHORT	
JR1004	1-216-295-11	SHORT	
JR1014	1-216-295-11	SHORT	
JR1015	1-216-295-11	SHORT	
JR1016	1-216-295-11	SHORT	
JR1017	1-216-295-11	SHORT	
JR1018	1-216-295-11	SHORT	
JR1019	1-216-295-11	SHORT	
JR1020	1-216-295-11	SHORT	
JR1021	1-216-295-11	SHORT	
JR1022	1-216-295-11	SHORT	
JR1023	1-216-295-11	SHORT	

REF.NO.	PART NO.	DESCRIPTION	VALUES
	COIL		
L261	1-414-857-11	INDUCTOR	100µH
L1201	1-408-591-11	INDUCTOR	1µH
L1202	1-408-591-11	INDUCTOR	1µH
L2004	1-414-856-11	INDUCTOR	10µH
L2005	1-410-494-11	INDUCTOR	1mH
L2009	1-414-856-11	INDUCTOR	10µH
L3301	1-414-856-11	INDUCTOR	10µH
L3302	1-410-473-11	INDUCTOR	18µH
L3303	1-410-473-11	INDUCTOR	18µH
L3305	1-408-619-31	INDUCTOR	220µH
L3306	1-414-857-11	INDUCTOR	100µH
L3307	1-414-856-11	INDUCTOR	10µH
L3581	1-408-591-11	INDUCTOR	1µH
L3582	1-408-591-11	INDUCTOR	1µH
	TRANSISTOR		
Q202	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q203	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q205	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q206	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q208	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q209	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q210	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q211	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q212	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q231	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q233	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q234	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q235	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q236	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q237	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q238	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q239	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q246	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q262	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q263	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q264	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q265	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q267	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1051	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1201	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1202	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1203	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1204	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1205	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1206	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q1207	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q1208	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q2003	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q2004	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q2005	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2006	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2007	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2008	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2009	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2010	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2014	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q2018	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q2019	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3301	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3302	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3305	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3306	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3307	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3310	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX	
Q3312	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
Q3314	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX	
	RESISTOR		
R201	1-216-022-00	RES-CHIP	75 5% 1/10W
R202	1-216-022-00	RES-CHIP	75 5% 1/10W
R203	1-216-022-00	RES-CHIP	75 5% 1/10W
R204	1-216-113-00	RES-CHIP	470K 5% 1/10W
R205	1-216-113-00	RES-CHIP	470K 5% 1/10W
R206	1-216-295-11	SHORT	
R207	1-216-295-11	SHORT	
R208	1-216-295-11	SHORT	
R209	1-216-089-11	RES-CHIP	47K 5% 1/10W
R210	1-216-081-00	RES-CHIP	22K 5% 1/10W
R211	1-216-089-11	RES-CHIP	47K 5% 1/10W
R212	1-216-081-00	RES-CHIP	22K 5% 1/10W
R213	1-216-089-11	RES-CHIP	47K 5% 1/10W
R214	1-216-081-00	RES-CHIP	22K 5% 1/10W
R218	1-208-774-11	METAL CHIP	470 0.50% 1/10W
R219	1-216-049-11	RES-CHIP	1K 5% 1/10W
R220	1-208-776-11	METAL CHIP	560 0.50% 1/10W
R221	1-208-774-11	METAL CHIP	470 0.50% 1/10W
R222	1-216-049-11	RES-CHIP	1K 5% 1/10W
R223	1-208-776-11	METAL CHIP	560 0.50% 1/10W
R225	1-216-025-11	RES-CHIP	100 5% 1/10W
R226	1-216-025-11	RES-CHIP	100 5% 1/10W
R228	1-216-049-11	RES-CHIP	1K 5% 1/10W
R229	1-216-049-11	RES-CHIP	1K 5% 1/10W
R230	1-216-089-11	RES-CHIP	47K 5% 1/10W
R231	1-216-022-00	RES-CHIP	75 5% 1/10W
R232	1-216-022-00	RES-CHIP	75 5% 1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R233	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R234	1-216-022-00	RES-CHIP	75	5%	1/10W
R235	1-216-113-00	RES-CHIP	470K	5%	1/10W
R236	1-216-113-00	RES-CHIP	470K	5%	1/10W
R237	1-216-022-00	RES-CHIP	75	5%	1/10W
R238	1-216-113-00	RES-CHIP	470K	5%	1/10W
R239	1-216-113-00	RES-CHIP	470K	5%	1/10W
R241	1-216-113-00	RES-CHIP	470K	5%	1/10W
R242	1-216-049-11	RES-CHIP	1K	5%	1/10W
R243	1-216-113-00	RES-CHIP	470K	5%	1/10W
R244	1-216-049-11	RES-CHIP	1K	5%	1/10W
R245	1-216-022-00	RES-CHIP	75	5%	1/10W
R246	1-216-113-00	RES-CHIP	470K	5%	1/10W
R247	1-216-113-00	RES-CHIP	470K	5%	1/10W
R248	1-216-113-00	RES-CHIP	470K	5%	1/10W
R249	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R250	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R251	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R252	1-216-049-11	RES-CHIP	1K	5%	1/10W
R254	1-216-049-11	RES-CHIP	1K	5%	1/10W
R256	1-216-295-11	SHORT			
R257	1-216-049-11	RES-CHIP	1K	5%	1/10W
R258	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R259	1-216-049-11	RES-CHIP	1K	5%	1/10W
R260	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R261	1-216-025-11	RES-CHIP	100	5%	1/10W
R262	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R263	1-216-025-11	RES-CHIP	100	5%	1/10W
R264	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R265	1-216-025-11	RES-CHIP	100	5%	1/10W
R266	1-216-025-11	RES-CHIP	100	5%	1/10W
R267	1-216-025-11	RES-CHIP	100	5%	1/10W
R268	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R269	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R270	1-216-049-11	RES-CHIP	1K	5%	1/10W
R271	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R272	1-216-025-11	RES-CHIP	100	5%	1/10W
R273	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R274	1-216-049-11	RES-CHIP	1K	5%	1/10W
R275	1-216-025-11	RES-CHIP	100	5%	1/10W
R276	1-216-295-11	SHORT			
R278	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R279	1-216-025-11	RES-CHIP	100	5%	1/10W
R280	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R281	1-216-025-11	RES-CHIP	100	5%	1/10W
R282	1-216-025-11	RES-CHIP	100	5%	1/10W
R283	1-216-049-11	RES-CHIP	1K	5%	1/10W
R284	1-216-033-00	RES-CHIP	220	5%	1/10W
R285	1-216-033-00	RES-CHIP	220	5%	1/10W
R286	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R287	1-216-025-11	RES-CHIP	100	5%	1/10W
R288	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R289	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R290	1-216-025-11	RES-CHIP	100	5%	1/10W
R291	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R292	1-216-295-11	SHORT			
R293	1-216-025-11	RES-CHIP	100	5%	1/10W
R294	1-216-077-91	RES-CHIP	15K	5%	1/10W
R295	1-216-025-11	RES-CHIP	100	5%	1/10W
R296	1-216-025-11	RES-CHIP	100	5%	1/10W
R297	1-216-025-11	RES-CHIP	100	5%	1/10W
R298	1-216-295-11	SHORT			
R300	1-216-025-11	RES-CHIP	100	5%	1/10W
R301	1-216-049-11	RES-CHIP	1K	5%	1/10W
R302	1-216-295-11	SHORT			
R902	1-249-405-11	CARBON	100	5%	1/4W
R921	1-249-405-11	CARBON	100	5%	1/4W
R923	1-249-405-11	CARBON	100	5%	1/4W
R925	1-249-405-11	CARBON	100	5%	1/4W
R926	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1055	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1056	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1057	1-216-025-11	RES-CHIP	100	5%	1/10W
R1058	1-216-025-11	RES-CHIP	100	5%	1/10W
R1059	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1060	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1062	1-216-033-00	RES-CHIP	220	5%	1/10W
R1063	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1064	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1065	1-216-025-11	RES-CHIP	100	5%	1/10W
R1070	1-216-025-11	RES-CHIP	100	5%	1/10W
R1205	1-216-295-11	SHORT			
R1207	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R1209	1-216-295-11	SHORT			
R1210	1-216-295-11	SHORT			
R1215	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R1216	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1217	1-216-091-00	RES-CHIP	56K	5%	1/10W
R1219	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1220	1-216-013-00	RES-CHIP	33	5%	1/10W
R1221	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1222	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1223	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1224	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1225	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1227	1-216-073-00	RES-CHIP	10K	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	VALUES		
R1228	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R1229	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1230	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1231	1-216-295-11	SHORT			
R1233	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1234	1-216-091-00	RES-CHIP	56K	5%	1/10W
R1235	1-216-013-00	RES-CHIP	33	5%	1/10W
R1236	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1237	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1238	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1239	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R1242	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1243	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1244	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1245	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1260	1-216-295-11	SHORT			
R1263	1-216-295-11	SHORT			
R1264	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1265	1-216-001-00	RES-CHIP	10	5%	1/10W
R1266	1-216-041-00	RES-CHIP	470	5%	1/10W
R1267	1-216-025-11	RES-CHIP	100	5%	1/10W
R1268	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1269	1-216-041-00	RES-CHIP	470	5%	1/10W
R1270	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1271	1-216-001-00	RES-CHIP	10	5%	1/10W
R1272	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W
R1273	1-208-788-11	METAL CHIP	1.8K	0.50%	1/10W
R1274	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1276	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1277	1-216-025-11	RES-CHIP	100	5%	1/10W
R1279	1-216-025-11	RES-CHIP	100	5%	1/10W
R1284	1-216-295-11	SHORT			
R1287	1-216-295-11	SHORT			
R1288	1-216-295-11	SHORT			
R1289	1-216-295-11	SHORT			
R1290	1-216-295-11	SHORT			
R1291	1-216-295-11	SHORT			
R1292	1-216-295-11	SHORT			
R1293	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1294	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1295	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1300	1-216-049-11	RES-CHIP	1K	5%	1/10W
R1304	1-216-041-00	RES-CHIP	470	5%	1/10W
R1305	1-208-776-11	METAL CHIP	560	0.50%	1/10W
R1306	1-216-025-11	RES-CHIP	100	5%	1/10W
R1307	1-216-041-00	RES-CHIP	470	5%	1/10W
R1308	1-208-776-11	METAL CHIP	560	0.50%	1/10W
R1309	1-216-025-11	RES-CHIP	100	5%	1/10W
R2015	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2016	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2017	1-216-295-11	SHORT			
R2018	1-216-295-11	SHORT			
R2021	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2027	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2028	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2029	1-216-043-91	RES-CHIP	560	5%	1/10W
R2030	1-216-043-91	RES-CHIP	560	5%	1/10W
R2031	1-216-081-00	RES-CHIP	22K	5%	1/10W
R2032	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2033	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R2034	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2035	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2036	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R2037	1-208-784-11	METAL CHIP	1.2K	0.50%	1/10W
R2038	1-208-762-11	METAL CHIP	150	0.50%	1/10W
R2039	1-216-047-91	RES-CHIP	820	5%	1/10W
R2040	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2041	1-216-047-91	RES-CHIP	820	5%	1/10W
R2042	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2043	1-216-085-00	RES-CHIP	33K	5%	1/10W
R2044	1-208-790-11	METAL CHIP	2.2K	0.50%	1/10W
R2046	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2047	1-216-085-00	RES-CHIP	33K	5%	1/10W
R2048	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2050	1-216-017-91	RES-CHIP	47	5%	1/10W
R2051	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2055	1-216-017-91	RES-CHIP	47	5%	1/10W
R2057	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2060	1-216-025-11	RES-CHIP	100	5%	1/10W
R2069	1-208-774-11	METAL CHIP	470	0.50%	1/10W
R2070	1-216-615-91	METAL CHIP	33	0.50%	1/10W
R2071	1-216-067-00	RES-CHIP	5.6K	5%	1/10W
R2072	1-216-043-91	RES-CHIP	560	5%	1/10W
R2073	1-216-049-11	RES-CHIP	1K	5%	1/10W
R2074	1-216-025-11	RES-CHIP	100	5%	1/10W
R2081	1-216-075-00	RES-CHIP	12K	5%	1/10W
R2201	1-216-022-00	RES-CHIP	75	5%	1/10W
R2202	1-216-022-00	RES-CHIP	75	5%	1/10W
R2203	1-216-022-00	RES-CHIP	75	5%	1/10W
R3301	1-216-295-11	SHORT			
R3303	1-216-295-11	SHORT			
R3304	1-216-295-11	SHORT			
R3305	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3306	1-216-295-11	SHORT			
R3309	1-216-041-00	RES-CHIP	470	5%	1/10W
R3310	1-216-055-00	RES-CHIP	1.8K	5%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

UY GA

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R3311	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R3312	1-216-037-00	RES-CHIP	330	5%	1/10W
R3313	1-216-295-11	SHORT			
R3314	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3320	1-216-295-11	SHORT			
R3322	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R3323	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R3324	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R3326	1-216-295-11	SHORT			
R3329	1-216-069-00	RES-CHIP	6.8K	5%	1/10W
R3332	1-216-033-00	RES-CHIP	220	5%	1/10W
R3337	1-216-033-00	RES-CHIP	220	5%	1/10W
R3338	1-216-033-00	RES-CHIP	220	5%	1/10W
R3339	1-216-025-11	RES-CHIP	100	5%	1/10W
R3340	1-216-041-00	RES-CHIP	470	5%	1/10W
R3341	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3342	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3343	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3346	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3347	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R3348	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3350	1-216-295-11	SHORT			
R3351	1-216-295-11	SHORT			
R3352	1-216-049-11	RES-CHIP	1K	5%	1/10W
R3355	1-216-295-11	SHORT			
R3357	1-216-295-11	SHORT			
R3358	1-216-047-91	RES-CHIP	820	5%	1/10W
R3359	1-216-047-91	RES-CHIP	820	5%	1/10W
R3360	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R3361	1-216-045-00	RES-CHIP	680	5%	1/10W
R3362	1-208-768-11	METAL CHIP	240	0.50%	1/10W
R3363	1-216-635-11	METAL CHIP	220	0.50%	1/10W
R3364	1-208-769-11	METAL CHIP	300	0.50%	1/10W
R3370	1-216-295-11	SHORT			
R3375	1-216-041-00	RES-CHIP	470	5%	1/10W
R3376	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R3377	1-216-073-00	RES-CHIP	10K	5%	1/10W
R3378	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R3379	1-216-077-91	RES-CHIP	15K	5%	1/10W
R3380	1-216-295-11	SHORT			
R3381	1-216-295-11	SHORT			
R3382	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3383	1-216-025-11	RES-CHIP	100	5%	1/10W
R3384	1-216-033-00	RES-CHIP	220	5%	1/10W
R3385	1-216-109-00	RES-CHIP	330K	5%	1/10W
R3387	1-216-295-11	SHORT			
R3388	1-216-295-11	SHORT			
R3395	1-216-061-00	RES-CHIP	3.3K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R3511	1-216-295-11	SHORT			
R3512	1-216-025-11	RES-CHIP	100	5%	1/10W
R3513	1-216-025-11	RES-CHIP	100	5%	1/10W
R3527	1-216-033-00	RES-CHIP	220	5%	1/10W
R3582	1-216-033-00	RES-CHIP	220	5%	1/10W
R3583	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R3584	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R3585	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R3586	1-216-295-11	SHORT			
R3587	1-216-295-11	SHORT			
R3588	1-216-295-11	SHORT			
R3592	1-216-091-00	RES-CHIP	56K	5%	1/10W
R3593	1-216-043-91	RES-CHIP	560	5%	1/10W
R3599	1-216-295-11	SHORT			

CRYSTAL

X3302	1-760-095-21	VIBRATOR, CRYSTAL
X3303	1-577-611-11	OSCILALTOR, CERAMIC
X3304	1-567-505-11	OSCILLATOR, CRYSTAL
X3305	1-579-973-11	VIBRATOR, CRYSTAL
X3306	1-579-972-11	VIBRATOR, CRYSTAL

GA

*	**A-1316-466-A**	**GA BOARD, COMPLETE**
	1-533-223-11	HOLDER, FUSE
*	4-374-846-01	COVER,CAPACITOR, CAP TYPE
	4-382-854-11	SCREW (M3X10), P, SW (+)

CAPACITOR

	C6001	1-117-494-91	ELECT	100µF	20%	25V
⚠	C6002	1-130-711-00	FILM	0.22µF	20%	250V
	C6003	1-136-346-21	MYLAR	0.22µF	20%	300V
⚠	C6005	1-119-886-51	CERAMIC	470pF	10%	250V
	C6008	1-117-534-91	ELECT	1µF	20%	100V
	C6009	1-117-535-91	ELECT	2.2µF	20%	100V
	C6010	1-130-711-00	FILM	0.22µF	20%	250V
	C6012	1-161-964-91	CERAMIC	.0047µF		250V
	C6013	1-161-964-91	CERAMIC	.0047µF		250V
	C6014	1-161-964-91	CERAMIC	.0047µF		250V
	C6015	1-161-964-91	CERAMIC	.0047µF		250V
	C6016	1-104-330-91	CERAMIC	470pF	10%	1KV
⚠	C6017	1-130-029-00	FILM	8200pF	2%	50V
	C6018	1-102-050-00	CERAMIC	0.01µF	20%	500V
⚠	C6019	1-113-611-11	ELECT(BLOCK)	820µF	20%	250V
⚠	C6020	1-113-611-11	ELECT(BLOCK)	820µF	20%	250V
	C6021	1-117-511-91	ELECT	10µF	20%	50V
⚠	C6022	1-117-537-91	ELECT	4.7µF	20%	100V

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GA

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C6024	1-117-511-91	ELECT	10µF	20%	50V
C6025	1-119-769-11	FILM	0.018µF	3%	1KV
C6026	1-117-511-91	ELECT	10µF	20%	50V
C6027	1-130-471-00	MYLAR	0.001µF	5%	50V
C6028	1-130-471-00	MYLAR	0.001µF	5%	50V
⚠ C6029	1-136-189-00	MYLAR	0.1µF	5%	63V
C6030	1-119-769-11	FILM	0.018µF	3%	1KV
C6031	1-104-330-91	CERAMIC	470pF	10%	1KV
C6032	1-117-534-91	ELECT	1µF	20%	100V
C6033	1-113-889-11	CERAMIC	1000pF	20%	250V
C6034	1-137-372-11	MYLAR	0.022µF	5%	50V
C6035	1-127-794-51	CERAMIC	2200pF	20%	250V
C6036	1-127-794-51	CERAMIC	2200pF	20%	250V
⚠ C6037	1-107-679-91	ELECT	10µF	20%	450V
C6038	1-137-509-11	MYLAR	0.01µF	5%	63V
C6039	1-164-645-11	CERAMIC	1000pF	10%	500V
C6040	1-130-467-00	MYLAR	470pF	5%	50V
C6041	1-107-679-91	ELECT	10µF	20%	450V
C6042	1-130-467-00	MYLAR	470pF	5%	50V
C6043	1-130-471-00	MYLAR	0.001µF	5%	50V
C6044	1-117-491-51	ELECT	3300µF	20%	16V
C6045	1-117-498-91	ELECT	1000µF	20%	25V
C6046	1-117-545-51	ELECT	470µF	20%	100V
C6047	1-117-545-51	ELECT	470µF	20%	100V
C6048	1-164-645-11	CERAMIC	1000pF	10%	500V
C6049	1-128-550-11	ELECT	2200µF	20%	50V
C6050	1-104-664-11	ELECT	47µF	20%	25V
C6051	1-104-664-11	ELECT	47µF	20%	25V
C6052	1-117-527-91	ELECT	470µF	20%	63V
C6053	1-136-189-00	MYLAR	0.1µF	5%	63V
C6054	1-137-605-11	MYLAR	0.01µF	10%	250V
C6056	1-130-471-00	MYLAR	0.001µF	5%	50V
C6057	1-107-636-11	ELECT	10µF	20%	160V
C6058	1-117-534-91	ELECT	1µF	20%	100V
C6059	1-104-664-11	ELECT	47µF	20%	25V
C6060	1-104-664-11	ELECT	47µF	20%	25V
C6061	1-136-189-00	MYLAR	0.1µF	5%	63V
C6062	1-117-511-91	ELECT	10µF	20%	50V
C6063	1-117-496-91	ELECT	330µF	20%	25V
C6064	1-104-664-11	ELECT	47µF	20%	25V
C6066	1-117-512-91	ELECT	22µF	20%	50V
C6067	1-102-121-00	CERAMIC	0.0022µF	10%	50V
C6068	1-102-106-00	CERAMIC	100pF	10%	50V
C6069	1-102-106-00	CERAMIC	100pF	10%	50V
C6070	1-102-074-00	CERAMIC	0.001µF	10%	50V
C6071	1-102-106-00	CERAMIC	100pF	10%	50V
C6072	1-102-106-00	CERAMIC	100pF	10%	50V
C6073	1-102-129-00	CERAMIC	0.01µF	10%	50V
C6074	1-102-106-00	CERAMIC	100pF	10%	50V
C6075	1-107-824-11	CERAMIC	220pF	5%	1KV
C6078	1-117-511-91	ELECT	10µF	20%	50V

CONNECTOR

* CN6001	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P	
CN6002	1-695-915-11	TAB (CONTACT)	
CN6003	1-580-843-11	PIN,CONNECTOR (POWER)	
* CN6004	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P	
* CN6005	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P	
* CN6006	1-564-509-11	PLUG,CONNECTOR 6P	
* CN6007	1-564-515-11	PLUG,CONNECTOR 12P	
* CN6008	1-508-786-00	PIN,CONNECTOR (5MM PITCH) 2P	
CN6009	1-695-915-11	TAB (CONTACT)	

DIODE

D6000	8-719-991-33	DIODE 1SS133T-77
D6001	8-719-991-33	DIODE 1SS133T-77
D6002	8-719-991-33	DIODE 1SS133T-77
D6003	8-719-991-33	DIODE 1SS133T-77
D6004	8-719-991-33	DIODE 1SS133T-77
D6005	8-719-991-33	DIODE 1SS133T-77
D6006	8-719-991-33	DIODE 1SS133T-77
⚠ D6008	8-719-510-53	DIODE D4SB60L-F
D6009	8-719-991-33	DIODE 1SS133T-77
D6010	8-719-991-33	DIODE 1SS133T-77
D6011	8-719-991-33	DIODE 1SS133T-77
D6012	8-719-991-33	DIODE 1SS133T-77
⚠ D6013	8-719-510-02	DIODE D1NS4-TA2
⚠ D6014	8-719-921-88	DIODE MTZJ-T-77-13B
D6015	8-719-979-64	DIODE UF4005PKG23
D6017	8-719-911-55	DIODE ERC04-06S
D6019	8-719-911-55	DIODE ERC04-06S
⚠ D6020	8-719-062-40	DIODE D4SBL20µF3
D6021	8-719-110-41	DIODE MTZJ-T-77-15B
D6022	8-719-510-12	DIODE D10SC4M
⚠ D6023	8-719-022-97	DIODE D2S4MTA1
⚠ D6024	8-719-022-97	DIODE D2S4MTA1
⚠ D6025	8-719-060-89	DIODE D4SBS6-F
D6028	8-719-110-49	DIODE MTZJ-T-77-18B
D6029	8-719-991-33	DIODE 1SS133T-77
⚠ D6030	8-719-110-60	DIODE MTZJ-T-77-24B
D6031	8-719-991-33	DIODE 1SS133T-77
D6032	8-719-510-48	DIODE D1N20R-TA
D6034	8-719-948-45	DIODE ERA22-08TP3
D6035	8-719-063-70	DIODE D1NL20U-TA2
D6036	8-719-032-12	DIODE D1NS6-TA2
D6037	8-719-991-33	DIODE 1SS133T-77

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GA

REF.NO.	PART NO.	DESCRIPTION	VALUES
D6038	8-719-991-33	DIODE 1SS133T-77	
D6040	8-719-063-70	DIODE D1NL20U-TA2	
D6041	8-719-991-33	DIODE 1SS133T-77	
D6042	8-719-110-17	DIODE MTZJ-T-77-10B	
D6043	8-719-991-33	DIODE 1SS133T-77	
D6044	8-719-991-33	DIODE 1SS133T-77	
D6045	8-719-911-55	DIODE ERC04-06S	
D6046	8-719-911-55	DIODE ERC04-06S	
D6047	8-719-110-31	DIODE MTZJ-T-77-12B	
D6048	8-719-110-31	DIODE MTZJ-T-77-12B	
D6049	8-719-991-33	DIODE 1SS133T-77	
⚠ D6050	8-719-979-64	DIODE UF4005PKG23	
D6051	8-719-063-70	DIODE D1NL20U-TA2	
D6052	8-719-110-31	DIODE MTZJ-T-77-12B	
D6054	8-719-063-70	DIODE D1NL20U-TA2	
D6055	8-719-063-70	DIODE D1NL20U-TA2	
D6056	8-719-063-70	DIODE D1NL20U-TA2	
	FUSE		
⚠ F6001	1-532-506-51	FUSE 6.3A/250V	
	FERRITE BEAD		
FB6001	1-412-911-11	FERRITE	0µH
FB6002	1-412-911-11	FERRITE	0µH
FB6003	1-412-911-11	FERRITE	0µH
FB6004	1-412-911-11	FERRITE	0µH
FB6005	1-412-911-11	FERRITE	0µH
FB6006	1-412-911-11	FERRITE	0µH
FB6007	1-412-911-11	FERRITE	0µH
	IC		
IC6000	8-759-198-31	IC UPC1093J-1-T	
⚠ IC6001	8-759-133-90	IC UPC339C	
⚠ IC6002	8-749-013-78	IC MCR5102	
IC6003	8-749-012-13	IC DM-58	
IC6004	8-759-394-35	IC BA12T	
IC6005	8-759-653-07	IC PQ09RD21	
IC6007	8-759-450-47	IC BA05T	
	COIL		
L6000	1-412-519-11	INDUCTOR	3.3µH
L6001	1-412-519-11	INDUCTOR	3.3µH
L6002	1-412-527-11	INDUCTOR	15µH
L6003	1-412-527-11	INDUCTOR	15µH
L6004	1-412-529-11	INDUCTOR	22µH

REF.NO.	PART NO.	DESCRIPTION	VALUES		
	PHOTO COUPLER				
⚠ PH6001	8-749-924-35	PHOTO COUPLER ON3171-R			
⚠ PH6002	8-749-924-35	PHOTO COUPLER ON3171-R			
	TRANSISTOR				
Q6000	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q6001	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q6002	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA			
Q6003	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA			
Q6004	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
Q6005	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
⚠ Q6006	8-729-046-40	TRANSISTOR 2SK2663			
Q6007	8-729-922-39	TRANSISTOR 2SD2144S-TP-V			
Q6008	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA			
Q6009	8-729-048-82	TRANSISTOR 2SA821STPQ			
Q6010	8-729-423-33	TRANSISTOR 2SC3311A-QRSTA			
⚠ Q6011	8-729-140-93	TRANSISTOR 2SB734-T-4			
Q6012	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA			
	RESISTOR				
R6000	1-215-445-00	METAL	10K	1%	1/4W
R6001	1-215-445-00	METAL	10K	1%	1/4W
R6002	1-202-719-00	SOLID	1M	20%	1/2W
R6003	1-249-425-11	CARBON	4.7K	5%	1/4W
R6004	1-247-843-11	CARBON	3.3K	5%	1/4W
R6005	1-215-469-00	METAL	100K	1%	1/4W
R6006	1-215-471-00	METAL	120K	1%	1/4W
R6007	1-247-843-11	CARBON	3.3K	5%	1/4W
R6008	1-215-469-00	METAL	100K	1%	1/4W
R6009	1-215-483-00	METAL	390K	1%	1/4W
R6010	1-249-393-11	CARBON	10	5%	1/4W
R6011	1-215-466-00	METAL	75K	1%	1/4W
R6012	1-215-489-00	METAL	680K	1%	1/4W
R6013	1-215-489-00	METAL	680K	1%	1/4W
R6014	1-215-489-00	METAL	680K	1%	1/4W
R6015	1-215-485-00	METAL	470K	1%	1/4W
R6016	1-215-471-00	METAL	120K	1%	1/4W
R6017	1-215-489-00	METAL	680K	1%	1/4W
R6018	1-215-489-00	METAL	680K	1%	1/4W
R6019	1-215-489-00	METAL	680K	1%	1/4W
⚠ R6020	1-218-265-11	METAL	8.2M	5%	1W
R6021	1-215-466-00	METAL	75K	1%	1/4W
R6022	1-215-469-00	METAL	100K	1%	1/4W
R6023	1-215-465-00	METAL	68K	1%	1/4W
R6024	1-215-457-00	METAL	33K	1%	1/4W
R6025	1-215-473-00	METAL	150K	1%	1/4W
R6026	1-215-466-00	METAL	75K	1%	1/4W

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GA

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
	R6027	1-215-489-00	METAL	680K	1%	1/4W
	R6028	1-215-489-00	METAL	680K	1%	1/4W
	R6029	1-215-489-00	METAL	680K	1%	1/4W
	R6030	1-215-458-00	METAL	36K	1%	1/4W
	R6031	1-215-489-00	METAL	680K	1%	1/4W
	R6032	1-215-489-00	METAL	680K	1%	1/4W
	R6033	1-215-489-00	METAL	680K	1%	1/4W
	R6034	1-215-463-00	METAL	56K	1%	1/4W
	R6035	1-249-429-11	CARBON	10K	5%	1/4W
	R6036	1-215-481-00	METAL	330K	1%	1/4W
	R6037	1-249-439-11	CARBON	68K	5%	1/4W
	R6038	1-215-481-00	METAL	330K	1%	1/4W
⚠	R6039	1-240-876-11	CEMENTED	1	5%	15W
⚠	R6040	1-240-876-11	CEMENTED	1	5%	15W
	R6041	1-219-512-11	CARBON	2.2M	5%	1/2W
	R6042	1-249-433-11	CARBON	22K	5%	1/4W
⚠	R6044	1-215-430-00	METAL	2.4K	1%	1/4W
	R6045	1-215-448-00	METAL	13K	1%	1/4W
	R6046	1-249-433-11	CARBON	22K	5%	1/4W
	R6047	1-215-481-00	METAL	330K	1%	1/4W
⚠	R6048	1-260-131-11	CARBON	470K	5%	1/2W
⚠	R6049	1-260-131-11	CARBON	470K	5%	1/2W
	R6050	1-249-425-11	CARBON	4.7K	5%	1/4W
⚠	R6051	1-202-933-61	FUSIBLE	0.1	10%	1/2W
	R6052	1-249-429-11	CARBON	10K	5%	1/4W
	R6053	1-249-425-11	CARBON	4.7K	5%	1/4W
	R6054	1-249-437-11	CARBON	47K	5%	1/4W
	R6055	1-249-429-11	CARBON	10K	5%	1/4W
	R6056	1-215-421-00	METAL	1K	1%	1/4W
	R6057	1-249-429-11	CARBON	10K	5%	1/4W
⚠	R6058	1-216-381-11	METAL OXIDE	0.22	5%	3W
	R6059	1-215-864-00	METAL OXIDE	150	5%	1W
⚠	R6060	1-216-381-11	METAL OXIDE	0.22	5%	3W
	R6062	1-219-512-11	CARBON	2.2M	5%	1/2W
	R6063	1-215-421-00	METAL	1K	1%	1/4W
⚠	R6064	1-249-409-11	CARBON	220	5%	1/4W
	R6065	1-249-409-11	CARBON	220	5%	1/4W
	R6066	1-249-389-11	CARBON	4.7	5%	1/4W
	R6067	1-249-421-11	CARBON	2.2K	5%	1/4W
	R6068	1-249-417-11	CARBON	1K	5%	1/4W
	R6069	1-249-437-11	CARBON	47K	5%	1/4W
	R6071	1-249-425-11	CARBON	4.7K	5%	1/4W
	R6072	1-249-409-11	CARBON	220	5%	1/4W
	R6073	1-260-298-51	CARBON	3.3	5%	1/2W
	R6074	1-249-415-11	CARBON	680	5%	1/4W
	R6075	1-260-312-11	CARBON	47	5%	1/2W
	R6076	1-260-312-11	CARBON	47	5%	1/2W
	R6077	1-247-791-91	CARBON	22	5%	1/4W

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
⚠	R6078	1-249-389-11	CARBON	4.7	5%	1/4W
	R6079	1-249-409-11	CARBON	220	5%	1/4W
	R6080	1-249-421-11	CARBON	2.2K	5%	1/4W
⚠	R6081	1-260-298-51	CARBON	3.3	5%	1/2W
	R6082	1-215-461-00	METAL	47K	1%	1/4W
	R6083	1-249-441-11	CARBON	100K	5%	1/4W
	R6084	1-249-413-11	CARBON	470	5%	1/4W
	R6085	1-215-462-00	METAL	51K	1%	1/4W
	R6086	1-215-479-00	METAL	270K	1%	1/4W
	R6087	1-240-205-91	CARBON	22M	5%	1/2W
⚠	R6088	1-249-417-11	CARBON	1K	5%	1/4W
	R6089	1-215-493-00	METAL	1M	1%	1/4W
	R6091	1-215-469-00	METAL	100K	1%	1/4W
	R6092	1-215-481-00	METAL	330K	1%	1/4W
	R6093	1-249-427-11	CARBON	6.8K	5%	1/4W
	R6094	1-215-423-00	METAL	1.2K	1%	1/4W
⚠	R6095	1-216-363-00	METAL OXIDE	0.33	5%	2W
	R6096	1-249-421-11	CARBON	2.2K	5%	1/4W
	R6097	1-215-485-00	METAL	470K	1%	1/4W
	R6098	1-215-445-00	METAL	10K	1%	1/4W
	R6099	1-215-469-00	METAL	100K	1%	1/4W
	R6100	1-249-429-11	CARBON	10K	5%	1/4W
	R6101	1-249-417-11	CARBON	1K	5%	1/4W
	R6102	1-247-895-91	CARBON	470K	5%	1/4W
	R6103	1-205-998-11	CEMENTED	1	5%	10W
	R6104	1-249-429-11	CARBON	10K	5%	1/4W
	R6105	1-249-429-11	CARBON	10K	5%	1/4W
	R6106	1-202-962-11	CEMENTED	3.3	5%	10W
	R6107	1-202-962-11	CEMENTED	3.3	5%	10W
	R6109	1-249-437-11	CARBON	47K	5%	1/4W
	R6111	1-215-857-11	METAL OXIDE	10	5%	1W
	R6112	1-215-857-11	METAL OXIDE	10	5%	1W

RELAY

⚠	RY6000	1-755-146-11	RELAY, AC POWER
⚠	RY6001	1-755-330-11	RELAY (AC POWER)
⚠	RY6002	1-755-330-11	RELAY (AC POWER)

TRANSFORMER

⚠	T6000	1-419-672-11	COIL, LINE FILTER
⚠	T6001	1-419-672-11	COIL, LINE FILTER
⚠	T6002	1-433-846-11	TRANSFORMER, CONVERTER (PIT)
⚠	T6003	1-433-844-11	TRANSFORMER, CONVERTER

THERMISTOR

⚠	TH6000	1-803-540-11	THERMISTOR
⚠	TH6001	1-803-629-11	THERMISTOR, POSITIVE

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

GA C HA

REF.NO.	PART NO.	DESCRIPTION	VALUES		
TH6002	1-803-586-11	THERMISTOR, NTC			
		VARISTOR			
⚠ VD6000	1-803-587-11	VARISTOR ENE471D-14A			
⚠ VD6001	1-803-614-11	VARISTOR			

C

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
*		**A-1331-939-A**	**C (VAR) BOARD, MOUNTED**			
		4-382-854-11	SCREW (M3X10), P, SW (+)			
			CAPACITOR			
	C1750	1-137-528-11	MYLAR	0.1µF	10%	250V
	C1751	1-107-655-11	ELECT	47µF	20%	250V
	C1790	1-102-129-00	CERAMIC	0.01µF	10%	50V
	C1791	1-117-524-91	ELECT	100µF	20%	63V
	C1792	1-102-116-00	CERAMIC	680pF	10%	50V
	C1794	1-107-651-11	ELECT	4.7µF	20%	250V
	C1795	1-102-074-00	CERAMIC	0.001µF	10%	50V
	C1799	1-162-114-00	CERAMIC	.0047µF		2KV
			CONNECTOR			
*	CN1761	1-564-509-11	PLUG,CONNECTOR 6P			
*	CN1764	1-564-508-11	PLUG,CONNECTOR 5P			
	CN1765	1-785-879-11	CONNECTOR, ONE TOUCH			
	CN1766	1-695-915-11	TAB (CONTACT)			
			DIODE			
	D1790	8-719-991-33	DIODE 1SS133T-77			
	D1791	8-719-075-33	DIODE 1N4003GA			
	D1792	8-719-075-33	DIODE 1N4003GA			
	D1793	8-719-075-33	DIODE 1N4003GA			
	D1794	8-719-075-33	DIODE 1N4003GA			
			IC			
⚠	IC1701	8-759-562-43	IC TDA6108JF/N1B			
			JACK			
⚠	J1761	1-251-797-11	SOCKET, CRT			
			COIL			
	L1790	1-412-537-31	INDUCTOR	100µH		
			TRANSISTOR			
	Q1790	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA			

REF.NO.	PART NO.	DESCRIPTION	VALUES		
		RESISTOR			
R1750	1-247-870-11	CARBON	43K	5%	1/4W
R1751	1-249-409-11	CARBON	220	5%	1/4W
R1752	1-249-409-11	CARBON	220	5%	1/4W
⚠ R1753	1-249-409-11	CARBON	220	5%	1/4W
R1763	1-260-328-11	CARBON	1K	5%	1/2W
R1764	1-247-807-31	CARBON	100	5%	1/4W
R1773	1-260-328-11	CARBON	1K	5%	1/2W
R1774	1-247-807-31	CARBON	100	5%	1/4W
R1783	1-260-328-11	CARBON	1K	5%	1/2W
R1784	1-247-807-31	CARBON	100	5%	1/4W
R1788	1-216-349-00	METAL OXIDE	1	5%	1W
R1789	1-249-437-11	CARBON	47K	5%	1/4W
R1792	1-249-409-11	CARBON	220	5%	1/4W
R1793	1-247-866-11	CARBON	30K	5%	1/4W
R1794	1-260-132-11	CARBON	560K	5%	1/2W
R1795	1-260-087-11	CARBON	100	5%	1/2W
⚠ R1796	1-216-372-11	METAL OXIDE	1.8	5%	2W
R1797	1-260-123-11	CARBON	100K	5%	1/2W
		VARIABLE RESISTOR			
RV1761	1-241-714-11	RES, ADJ, METAL FILM 110M			

HA

	REF.NO.	PART NO.	DESCRIPTION	VALUES		
*		**A-1372-634-A**	**HA BOARD, MOUNTED**			
			CAPACITOR			
	C1234	1-117-534-91	ELECT	1µF	20%	100V
	C1235	1-117-534-91	ELECT	1µF	20%	100V
	C1239	1-216-295-11	SHORT			
			CONNECTOR			
*	CN1232	1-564-512-11	PLUG,CONNECTOR 9P			
			DIODE			
	D1233	8-719-110-17	DIODE MTZJ-T-77-10B			
			JACK			
	J1231	1-770-361-11	TERMINAL BLOCK, S			
			RESISTOR			
	R201	1-216-049-11	RES-CHIP	1K	5%	1/10W
	R202	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
	R203	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R1233	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
	R1235	1-216-065-91	RES-CHIP	4.7K	5%	1/10W

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NOTE: Les composants identifies par un trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

HA HB HX HZ WA

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R1236	1-216-113-00	RES-CHIP	470K	5%	1/10W
R1237	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1238	1-216-113-00	RES-CHIP	470K	5%	1/10W
	SWITCH				
S2007	1-572-198-11	SWITCH KEYBOARD			
S2008	1-572-198-11	SWITCH KEYBOARD			
S2009	1-572-198-11	SWITCH KEYBOARD			
S2010	1-572-198-11	SWITCH KEYBOARD			

HB

*	**A-1372-635-A**	**HB BOARD, MOUNTED**	
	CAPACITOR		
C2001	1-104-665-11	ELECT	100µF 20% 25V
C2002	1-164-096-11	CERAMIC	0.01µF 50V
	CONNECTOR		
* CN2001	1-564-520-11	PLUG,CONNECTOR 5P	
	DIODE		
D2002	8-719-057-09	DIODE LNJ801LPDJA	
D2003	8-719-057-09	DIODE LNJ801LPDJA	
	IC		
IC2001	8-742-211-20	HYB IC SBX3071-71	
	RESISTOR		
R2001	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2002	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2003	1-216-017-91	RES-CHIP	47 5% 1/10W

HX

*	**A-1372-636-A**	**HX BOARD, MOUNTED**	
	CONNECTOR		
* CN2002	1-564-518-11	PLUG,CONNECTOR 3P	
	RESISTOR		
R2010	1-216-047-91	RES-CHIP	820 5% 1/10W
R2011	1-216-049-11	RES-CHIP	1K 5% 1/10W
R2012	1-216-055-00	RES-CHIP	1.8K 5% 1/10W
R2013	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R2014	1-216-025-11	RES-CHIP	100 5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
	SWITCH				
S2001	1-572-198-11	SWITCH KEYBOARD			
S2002	1-572-198-11	SWITCH KEYBOARD			
S2003	1-572-198-11	SWITCH KEYBOARD			
S2004	1-572-198-11	SWITCH KEYBOARD			
S2005	1-572-198-11	SWITCH KEYBOARD			
S2006	1-572-198-11	SWITCH KEYBOARD			

HZ

*	**A-1372-667-A**	**HZ BOARD, MOUNTED**	
	CONNECTOR		
* CN901	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P	
* CN902	1-573-963-11	PIN,CONNECTOR (PC BOARD) 3P	
	SWITCH		
⚠ SW901	1-571-433-21	SWITCH PUSH (AC POWER)	

WA

*	**A-1375-187-A**	**WA BOARD, COMPLETE**	
	4-382-854-11	SCREW (M3X10), P, SW (+)	
	CAPACITOR		
C941	1-117-498-91	ELECT	1000µF 20% 25V
C944	1-117-511-91	ELECT	10µF 20% 50V
C946	1-104-665-11	ELECT	100µF 20% 25V
C947	1-104-664-11	ELECT	47µF 20% 25V
C949	1-161-830-00	CERAMIC	.0047µF 500V
C950	1-117-506-91	ELECT	470µF 20% 35V
C951	1-107-645-11	ELECT	22µF 20% 160V
C952	1-104-999-11	MYLAR	0.1µF 10% 200V
C953	1-106-383-00	MYLAR	0.047µF 10% 200V
C954	1-115-202-91	MYLAR	0.001µF 5% 63V
C955	1-107-667-11	ELECT	2.2µF 20% 160V
C956	1-115-202-91	MYLAR	0.001µF 5% 63V
C957	1-106-383-00	MYLAR	0.047µF 10% 200V
C958	1-117-506-91	ELECT	470µF 20% 35V
C960	1-163-021-91	CERAMIC CHIP	0.01µF 10% 50V
C961	1-164-004-11	CERAMIC CHIP	0.1µF 10% 25V
C962	1-117-511-91	ELECT	10µF 20% 50V
C963	1-117-537-91	ELECT	4.7µF 20% 100V
C964	1-110-501-11	CERAMIC CHIP	0.33µF 10% 16V
C965	1-104-664-11	ELECT	47µF 20% 25V
C966	1-117-534-91	ELECT	1µF 20% 100V
C967	1-117-511-91	ELECT	10µF 20% 50V

REF.NO.	PART NO.	DESCRIPTION	VALUES		
C968	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C970	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C971	1-104-664-11	ELECT	47µF	20%	25V
C972	1-163-251-11	CERAMIC CHIP	100pF	5%	50V
C973	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C974	1-137-509-11	MYLAR	0.01µF	5%	63V
C976	1-130-967-00	FILM	0.0027µF	5%	50V
C977	1-104-760-11	CERAMIC CHIP	0.047µF	10%	50V
C1941	1-117-506-91	ELECT	470µF	20%	35V
C1946	1-136-189-00	MYLAR	0.1µF	5%	63V
C1947	1-136-189-00	MYLAR	0.1µF	5%	63V
C1948	1-164-161-11	CERAMIC CHIP	0.0022µF	10%	50V
C1961	1-129-725-00	FILM	0.082µF	5%	400V
C1962	1-163-021-91	CERAMIC CHIP	0.01µF	10%	50V
C1965	1-136-601-11	FILM	0.01µF	5%	630V
C1966	1-136-191-11	MYLAR	0.22µF	5%	63V
C1968	1-136-191-11	MYLAR	0.22µF	5%	63V
C1972	1-104-664-11	ELECT	47µF	20%	25V
C1974	1-104-664-11	ELECT	47µF	20%	25V

CONNECTOR

*	CN941	1-564-511-11	PLUG,CONNECTOR 8P
*	CN942	1-564-508-11	PLUG,CONNECTOR 5P
*	CN961	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P
*	CN981	1-564-506-11	PLUG,CONNECTOR 3P

DIODE

D941	8-719-991-33	DIODE 1SS133T-77
D943	8-719-991-33	DIODE 1SS133T-77
D944	8-719-991-33	DIODE 1SS133T-77
D945	8-719-109-89	DIODE MTZJ-T-77-5.6C
D946	8-719-110-88	DIODE MTZJ-T-77-39
D947	8-719-110-88	DIODE MTZJ-T-77-39
D962	8-719-991-33	DIODE 1SS133T-77
D963	8-719-073-01	DIODE MA111-TX
D964	8-719-210-21	DIODE ERA82-004TP5
D966	8-719-075-41	DIODE PR1004GT
D1961	8-719-991-33	DIODE 1SS133T-77
D1962	8-719-991-33	DIODE 1SS133T-77

IC

IC961	8-759-803-42	IC LA6500-FA
IC962	8-759-659-67	IC NJM2903D
IC963	8-759-659-67	IC NJM2903D
IC964	8-759-700-42	IC NJM2904D
IC965	8-759-701-59	IC NJM78M09FA

REF.NO.	PART NO.	DESCRIPTION	VALUES

COIL

L961	1-459-104-00	COIL, WITH CORE	
L964	1-406-989-21	INDUCTOR	10mH

TRANSISTOR

Q941	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q942	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX
Q943	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q944	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q945	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q946	8-729-045-05	TRANSISTOR 2SA2005
Q947	8-729-045-04	TRANSISTOR 2SC5511
Q948	8-719-914-43	DIODE DAN202K-T-146
Q949	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX
Q961	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q962	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA
Q963	8-729-119-76	TRANSISTOR 2SA1309A-QRSTA
Q965	8-729-931-45	TRANSISTOR IRF614
Q966	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX
Q967	8-729-140-97	TRANSISTOR 2SB734-T-34
Q968	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q969	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q1961	8-729-140-97	TRANSISTOR 2SB734-T-34
Q1963	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX
Q1964	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX
Q1966	8-729-422-27	TRANSISTOR 2SD601A-QRS-TX
Q1967	8-729-216-22	TRANSISTOR 2SB709A-QRS-TX

RESISTOR

R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R944	1-216-049-11	RES-CHIP	1K	5%	1/10W
R945	1-216-049-11	RES-CHIP	1K	5%	1/10W
R946	1-215-888-00	METAL OXIDE	220	5%	2W
R947	1-216-025-11	RES-CHIP	100	5%	1/10W
R949	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R950	1-216-049-11	RES-CHIP	1K	5%	1/10W
R951	1-216-049-11	RES-CHIP	1K	5%	1/10W
R952	1-216-041-00	RES-CHIP	470	5%	1/10W
R953	1-216-021-00	RES-CHIP	68	5%	1/10W
R954	1-216-033-00	RES-CHIP	220	5%	1/10W
R955	1-216-047-91	RES-CHIP	820	5%	1/10W
R956	1-216-025-11	RES-CHIP	100	5%	1/10W
R957	1-216-073-00	RES-CHIP	10K	5%	1/10W
R958	1-216-025-11	RES-CHIP	100	5%	1/10W
R959	1-216-021-00	RES-CHIP	68	5%	1/10W
R960	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R961	1-216-091-00	RES-CHIP	56K	5%	1/10W

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WA

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R962	1-216-081-00	RES-CHIP	22K	5%	1/10W
R963	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R964	1-216-073-00	RES-CHIP	10K	5%	1/10W
R965	1-216-077-91	RES-CHIP	15K	5%	1/10W
R966	1-216-073-00	RES-CHIP	10K	5%	1/10W
R967	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R968	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R969	1-216-025-11	RES-CHIP	100	5%	1/10W
R970	1-208-822-11	METAL CHIP	47K	0.50%	1/10W
R971	1-216-049-11	RES-CHIP	1K	5%	1/10W
R972	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R973	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R974	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
R975	1-216-073-00	RES-CHIP	10K	5%	1/10W
R976	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R977	1-249-401-11	CARBON	47	5%	1/4W
R978	1-216-073-00	RES-CHIP	10K	5%	1/10W
R979	1-216-033-00	RES-CHIP	220	5%	1/10W
R980	1-216-073-00	RES-CHIP	10K	5%	1/10W
R981	1-216-081-00	RES-CHIP	22K	5%	1/10W
R982	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R983	1-249-381-11	CARBON	1	5%	1/4W
R984	1-249-383-11	CARBON	1.5	5%	1/4W
R985	1-215-421-00	METAL	1K	1%	1/4W
R986	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R988	1-215-429-00	METAL	2.2K	1%	1/4W
R990	1-216-025-11	RES-CHIP	100	5%	1/10W
R991	1-208-800-11	METAL CHIP	5.6K	0.50%	1/10W
R992	1-208-794-11	METAL CHIP	3.3K	0.50%	1/10W
R993	1-216-049-11	RES-CHIP	1K	5%	1/10W
R994	1-216-025-11	RES-CHIP	100	5%	1/10W
R995	1-216-051-00	RES-CHIP	1.2K	5%	1/10W
R1941	1-260-312-11	CARBON	47	5%	1/2W
R1942	1-249-387-11	CARBON	3.3	5%	1/4W
R1943	1-249-414-11	CARBON	560	5%	1/4W
R1944	1-249-432-11	CARBON	18K	5%	1/4W
R1945	1-215-914-11	METAL OXIDE	330	5%	3W
R1946	1-249-417-11	CARBON	1K	5%	1/4W
R1947	1-249-432-11	CARBON	18K	5%	1/4W
R1948	1-249-414-11	CARBON	560	5%	1/4W
R1949	1-249-387-11	CARBON	3.3	5%	1/4W
R1950	1-249-401-11	CARBON	47	5%	1/4W
R1951	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1952	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1953	1-216-085-00	RES-CHIP	33K	5%	1/10W
R1954	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1955	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
R1956	1-216-057-00	RES-CHIP	2.2K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	VALUES		
R1957	1-216-295-11	SHORT			
R1958	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R1959	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1960	1-216-037-00	RES-CHIP	330	5%	1/10W
R1961	1-208-824-11	METAL CHIP	56K	0.50%	1/10W
R1962	1-208-806-11	METAL CHIP	10K	0.50%	1/10W
⚠ R1963	1-216-033-00	RES-CHIP	220	5%	1/10W
R1964	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R1967	1-215-489-00	METAL	680K	1%	1/4W
R1969	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1970	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R1971	1-216-121-11	RES-CHIP	1M	5%	1/10W
R1972	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1973	1-216-035-00	RES-CHIP	270	5%	1/10W
R1975	1-208-808-11	METAL CHIP	12K	0.50%	1/10W
R1976	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R1978	1-216-025-11	RES-CHIP	100	5%	1/10W
R1980	1-216-041-00	RES-CHIP	470	5%	1/10W
R1981	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1982	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1983	1-216-073-00	RES-CHIP	10K	5%	1/10W
R1984	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1987	1-216-097-11	RES-CHIP	100K	5%	1/10W
R1989	1-208-818-11	METAL CHIP	33K	0.50%	1/10W
R1990	1-216-089-11	RES-CHIP	47K	5%	1/10W
R1991	1-216-081-00	RES-CHIP	22K	5%	1/10W
R1992	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R2962	1-215-885-00	METAL OXIDE	68	5%	2W
R2963	1-215-885-00	METAL OXIDE	68	5%	2W
R2965	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2968	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2969	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R2971	1-216-089-11	RES-CHIP	47K	5%	1/10W
R2972	1-216-113-00	RES-CHIP	470K	5%	1/10W
R2973	1-216-025-11	RES-CHIP	100	5%	1/10W
R2975	1-216-061-00	RES-CHIP	3.3K	5%	1/10W
R2976	1-216-025-11	RES-CHIP	100	5%	1/10W
R2979	1-216-097-11	RES-CHIP	100K	5%	1/10W
R2980	1-216-097-11	RES-CHIP	100K	5%	1/10W

VARIABLE RESISTOR

RV941	1-238-019-11	RES, ADJ, CARBON	47K		

REF.NO.	PART NO.	DESCRIPTION	VALUES

ACCESSORIES AND PACKING MATERIALS

*	4-082-016-01	CARTON, INDIVIDUAL
*	4-070-460-01	CUSHION ASSY, LOWER
*	4-070-459-02	CUSHION ASSY, UPPER
	4-082-019-41	MANUAL, INSTRUCTION
*	4-071-681-01	BAG, PROTECTION

REMOTE COMMANDER

	1-418-496-21	REMOTE COMMANDER (RM-Y171)
	4-978-977-01	BATTERY COVER (FOR RM-Y171)

REF.NO.	PART NO.	DESCRIPTION	VALUES

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

9-965-908-01

English
2001BJ74085-1
Printed in the U.S.A.
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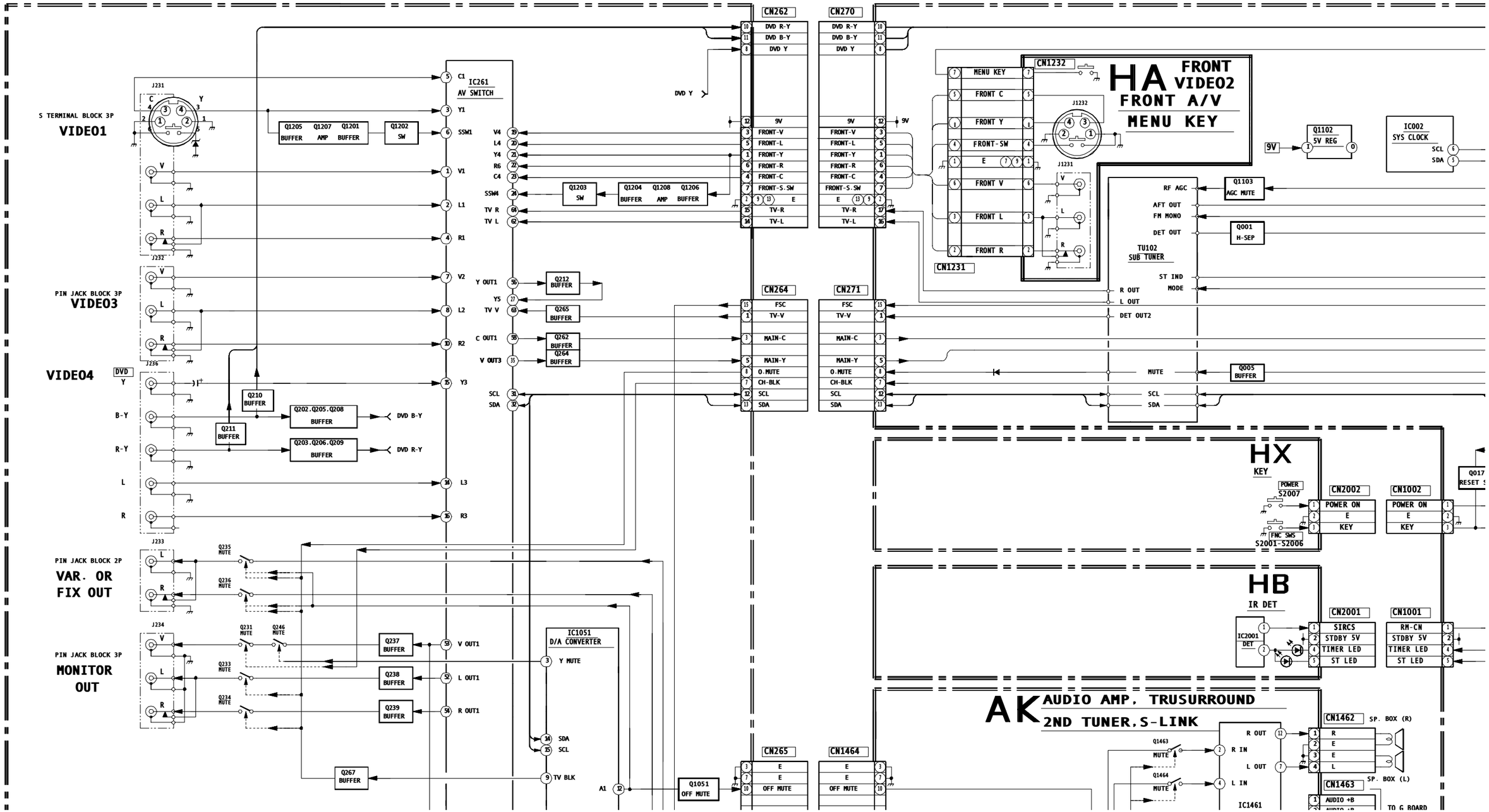
5-3. DIAGRAMS

BLOCK DIAGRAM (1 OF 2)



IC001
TUNING-MICON

IO-BLCKN
IO-BDAT
O-RELAY
O-HP SEL
O-AGCMT
I-AFT
O-MONO
I-HSYNC
I-STEREO
O-SAP
O-MUTE
O-CHBLK
IO-SCLKN
IO-SDAT
I-RESET
I-POWERN
I-KEYN
I-RMCN
O-TIMLED
O-STLED

Q017
RESET SW

I-VIN
O-2CHBLK
O-R
O-G
O-B
O-I

Q002 BUFFER
2CH BLK
Q010 BUFFER
Q011 BUFFER
Q012 BUFFER
Q013 SW
Q014 SW
Q015 SW

IC355
Y/C JUNGLE

FSC
COMB
Y1
COMB Y
R IN
G IN
B IN

Q307 BUFFER
Q315 BUFFER

R OUT
G OUT
B OUT
IKIN
EB-YIN
ER-YIN
EYIN
SCP
HP/PRM
YOUT
R-YOUT
B-YOUT
YUVSW
VTIM
SCL
SDA
ABL IN
AFCFIL

Q304 BUFFER
Q305 BUFFER
Q306 BUFFER
Q310 BUFFER
Q311 SW
Q359 BGP BUF
Q1353 BUFFER
Q1352 INV
Q370 BUFFER
Q1301 BUFFER
Q1302 BUFFER
Q351 BUFFER
Q313 BUFFER
Q314 BUFFER
Q303 BUFFER
Q362
Q364 BUFFER
Q1303

IC353
SHP

SCP
OSC
Q1354 SW
YOUT
Q361 BUFFER
Y
SCL
SDA
VM

BYOUT
RYOUT
YOUT
CLP

IC354
YUV SW

B-YIN
R-YIN
YIN
Q369 BUFF

IC352
YUV SW

DVD B-Y
DVD R-Y
DVD Y

IC1001
D/A CONV

MAIN YSW
HUE
COLOR
DLYSW
YUVSW
HUE
COLOR
R-YIN
B-YIN
TVIN

PB-YIN
PR-YIN
PY-IN

DVD SW2
NS CORR

IC351
VM SW
V OUT
V1

Q352 BUFFER

FROM CN1641 PIN 12 DGC

TO CN1941 PIN 4 N/S MUTE

FROM FBT PIN 5

CN1641
+B
+B
12V
GND
GND
N.C.
9V
9V
GND
STBY 5V
PWRON
DGC

TO G BOARD CN641
TO GA BOARD CN6007

CN503
HEATER
E
N.C.
N.C.
200V

TO C BOARD CN1764

CN351
R
G
B
9V
E
IK

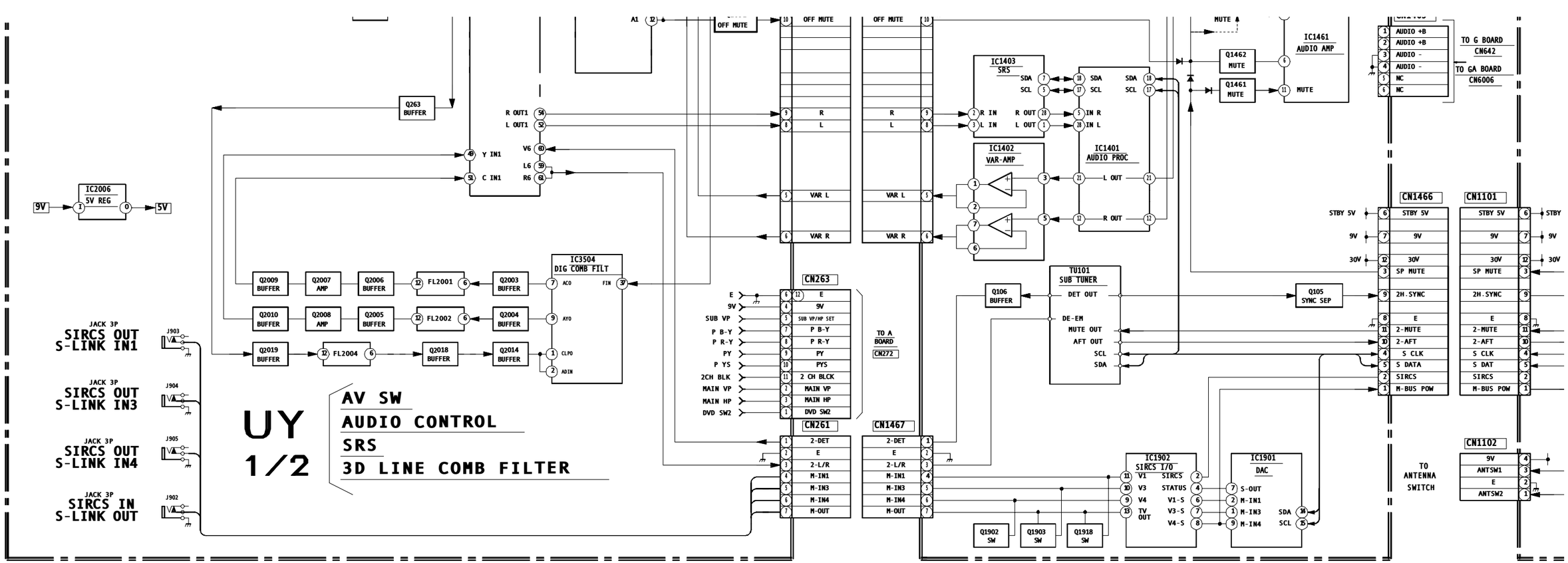
TO C BOARD CN1761

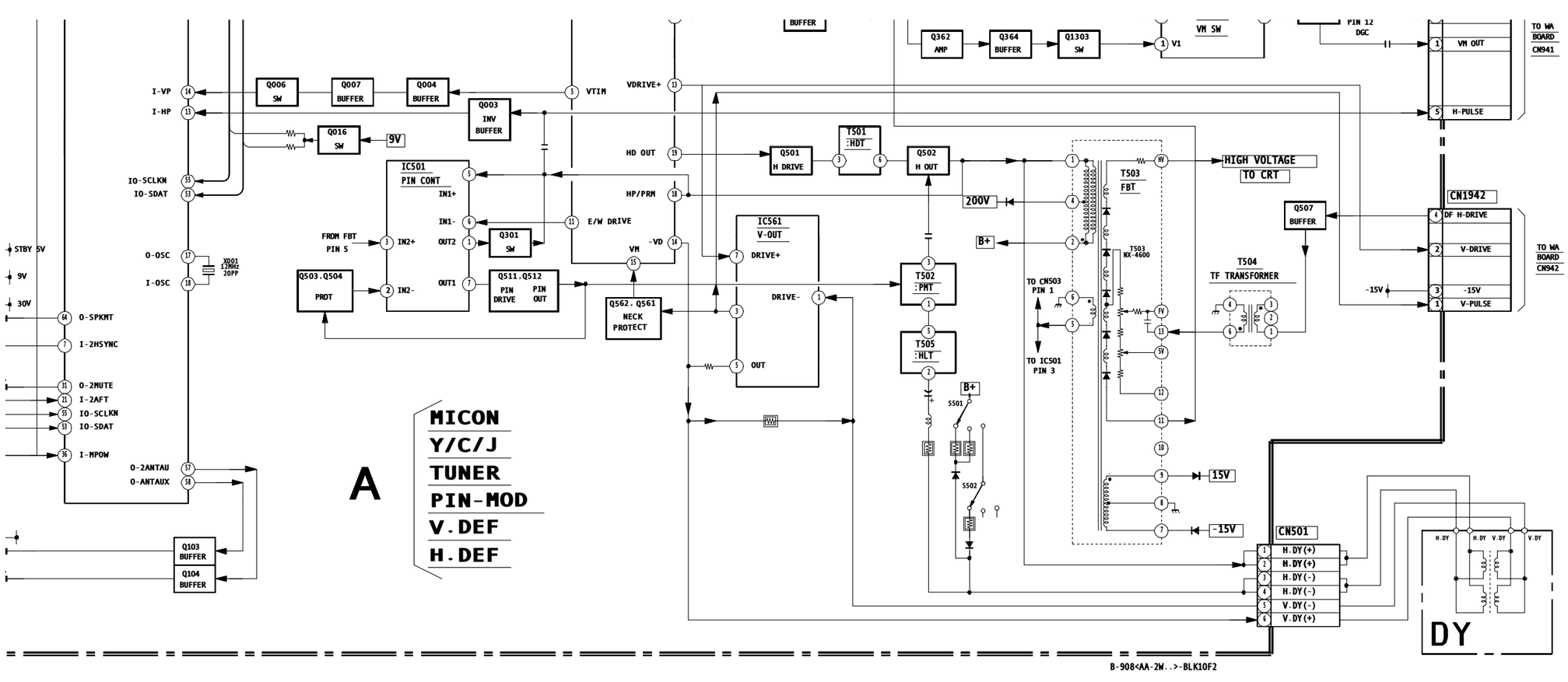
CN272
P B-Y
P R-Y
PY
9V
E
PYS
SUB VP/HP SET
2 CH BLCK
MAIN VP
MAIN HP
DVD SW2

FROM UX BOARD CN263

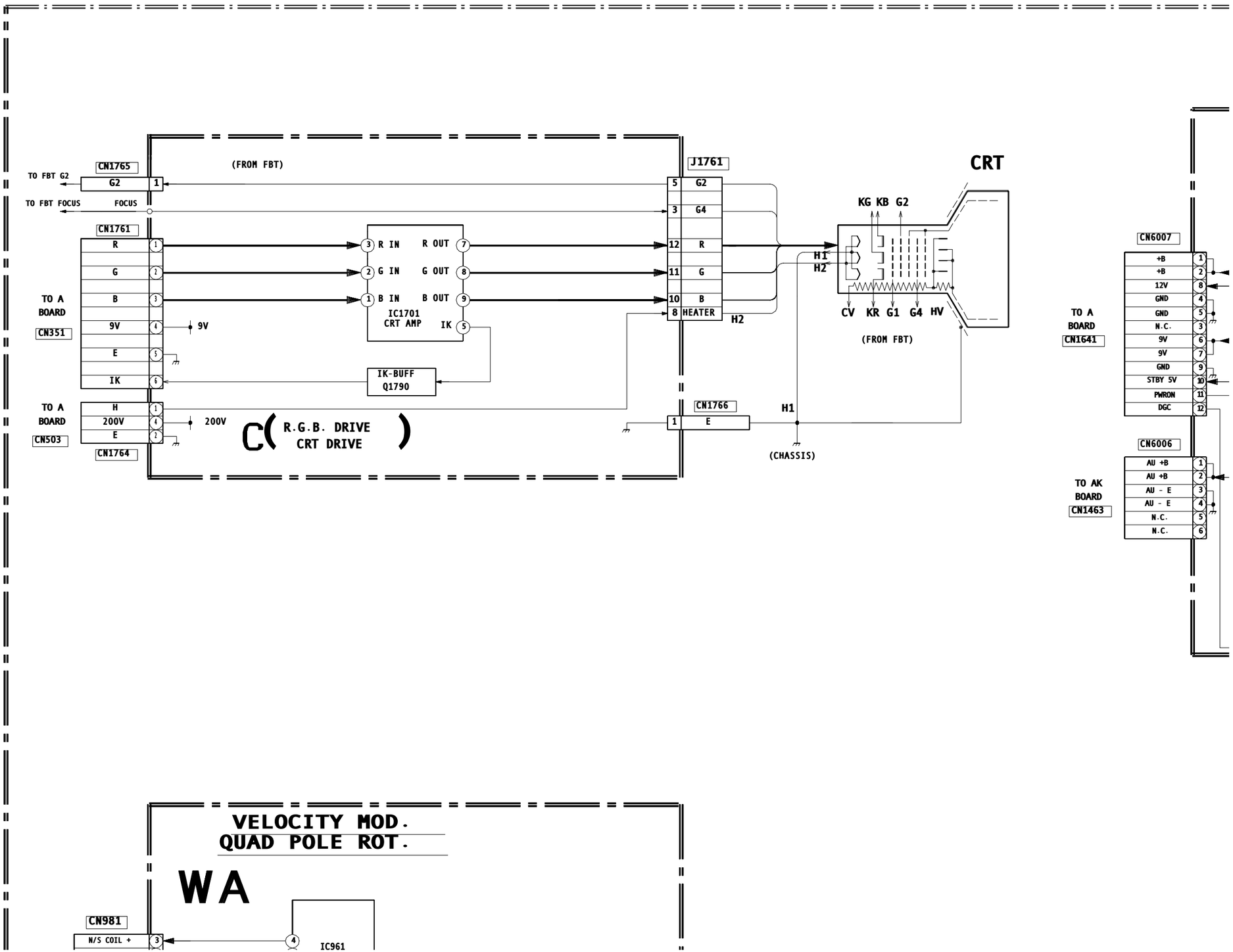
CN1941
N/S CORR
N/S MUTE
VM OUT

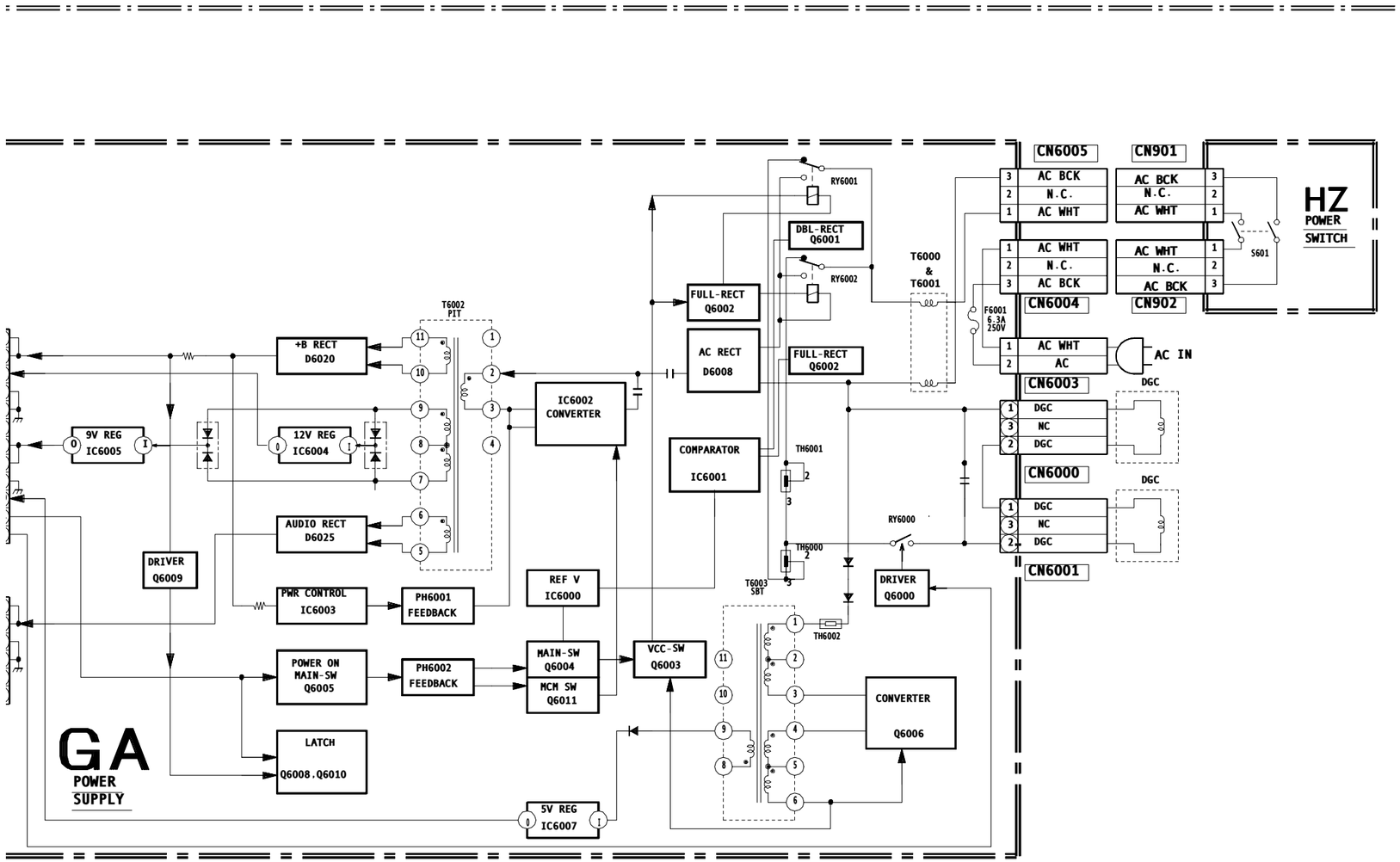
TO WA BOARD

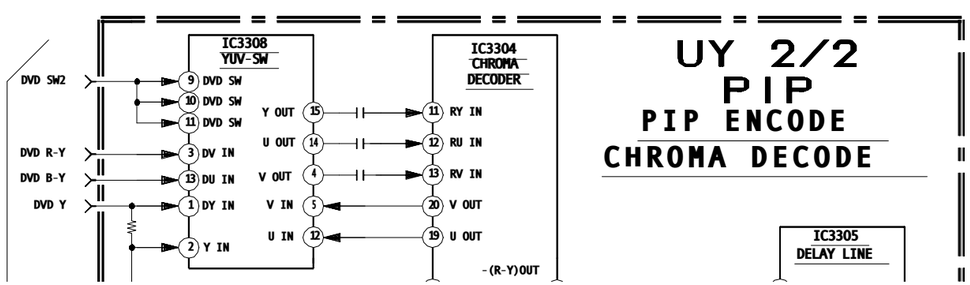

UY
1/2
AV SW
AUDIO CONTROL
SRS
3D LINE COMB FILTER
JACK 3P
SIRCS OUT
S-LINK IN1
J903
JACK 3P
SIRCS OUT
S-LINK IN3
J904
JACK 3P
SIRCS OUT
S-LINK IN4
J905
JACK 3P
SIRCS IN
S-LINK OUT
J902
IC2006
5V REG
9V
5V
IC3504
DIG COMB FILT
Q263 BUFFER
Q2009 BUFFER
Q2007 AMP
Q2006 BUFFER
FL2001
Q2003 BUFFER
Q2010 BUFFER
Q2008 AMP
Q2005 BUFFER
FL2002
Q2004 BUFFER
Q2019 BUFFER
FL2004
Q2018 BUFFER
Q2014 BUFFER
R OUT1
L OUT1
Y IN1
C IN1
V6
L6
R6
OFF MUTE
VAR L
VAR R
CN263
CN261
CN1467
TO A BOARD CN272
IC1403 SRS
IC1402 VAR-AMP
IC1401 AUDIO PROC
IC1461 AUDIO AMP
Q1462 MUTE
Q1461 MUTE
TO G BOARD CN642
TO GA BOARD CN6006
TU101 SUB TUNER
Q106 BUFFER
Q105 SYNC SEP
CN1466
CN1101
CN1102
IC1902 SIRCS I/O
IC1901 DAC
Q1902 SW
Q1903 SW
Q1918 SW
TO ANTENNA SWITCH

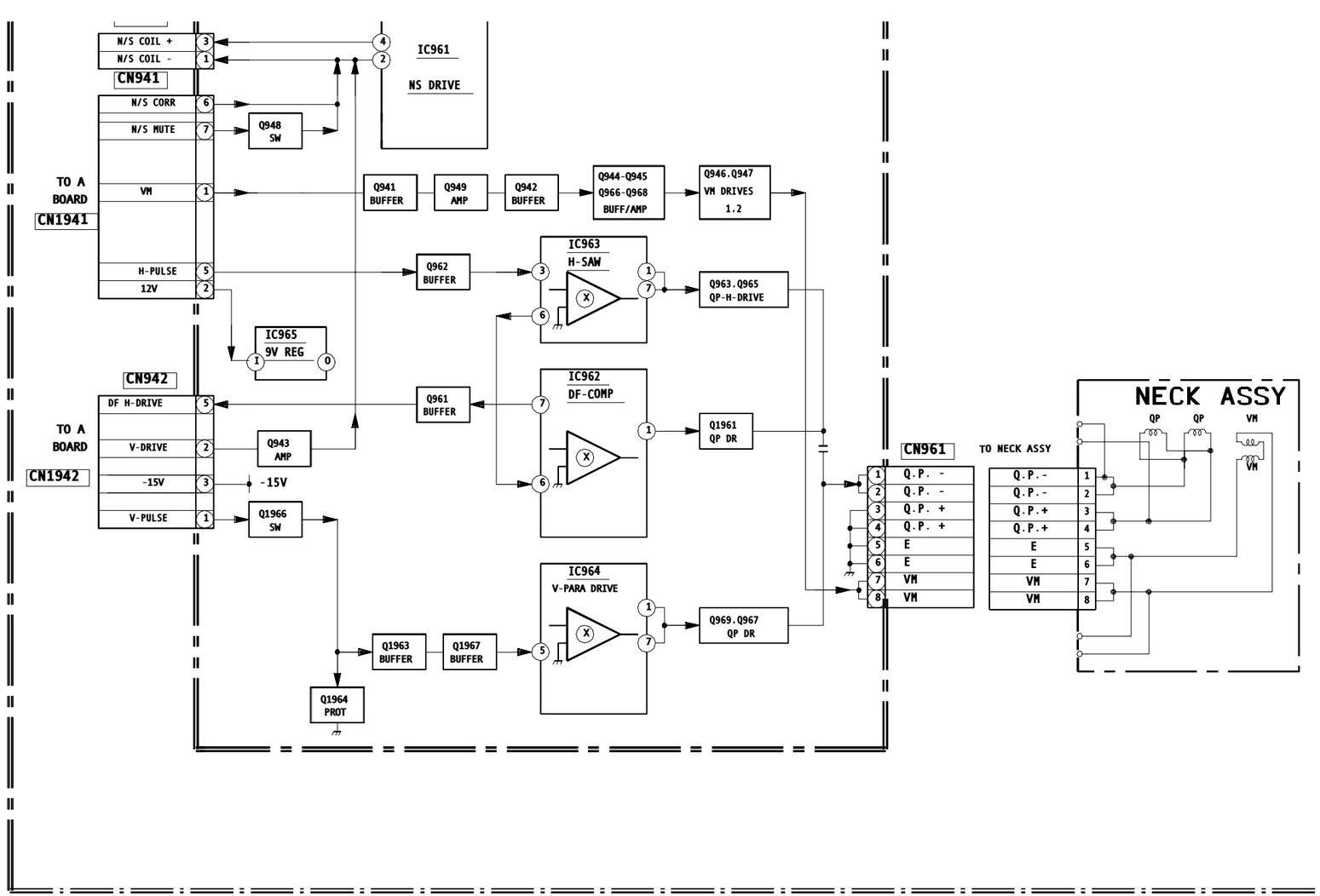

BUFFER
Q362 AMP
Q364 BUFFER
Q1303 SW
1 V1
VM SW
PIN 12 DGC
1 VM OUT
5 H-PULSE
TO WA BOARD CN941
I-VP 14
I-HP 13
Q006 SW
Q007 BUFFER
Q004 BUFFER
Q003 INV BUFFER
5 VTIM
VDRIVE+ 13
Q016 SW
9V
HD OUT 19
Q501 H DRIVE
T501 :HDT
Q502 H OUT
IO-SCLKN 55
IO-SDAT 53
IC501 PIN CONT
IN1+ 5
IN1- 6
HP/PRM 18
E/W DRIVE 11
FROM FBT PIN 5
IN2+ 3
OUT2 1
Q301 SW
-VD 14
VM 15
IC561 V-OUT
DRIVE+ 7
DRIVE- 1
OUT 5
200V
B+
T503 FBT
HIGH VOLTAGE TO CRT
Q507 BUFFER
CN1942
4 DF H-DRIVE
2 V-DRIVE
3 -15V
1 V-PULSE
TO WA BOARD CN942
-15V
STBY 5V
9V
30V
O-OSC 17
I-OSC 18
X001 12MHz 20PP
Q503.Q504 PROT
IN2- 2
OUT1 7
Q511.Q512 PIN DRIVE PIN OUT
Q562.Q561 NECK PROTECT
T502 :PHT
T505 :HLT
T503 NX-4600
TO CN503 PIN 1
TO IC501 PIN 3
T504 TF TRANSFORMER
SS01
SS02
15V
-15V
O-SPKMT 64
I-2HSYNC 7
O-2MUTE 31
I-2AFT 21
IO-SCLKN 55
IO-SDAT 53
I-MPOW 36
O-2ANTAU 57
O-ANTAUX 58
Q103 BUFFER
Q104 BUFFER
A
MICON
Y/C/J
TUNER
PIN-MOD
V.DEF
H.DEF
CN501
1 H.DY(+)
2 H.DY(+)
3 H.DY(-)
4 H.DY(-)
5 V.DY(-)
6 V.DY(+)
H.DY
H.DY
V.DY
V.DY
DY

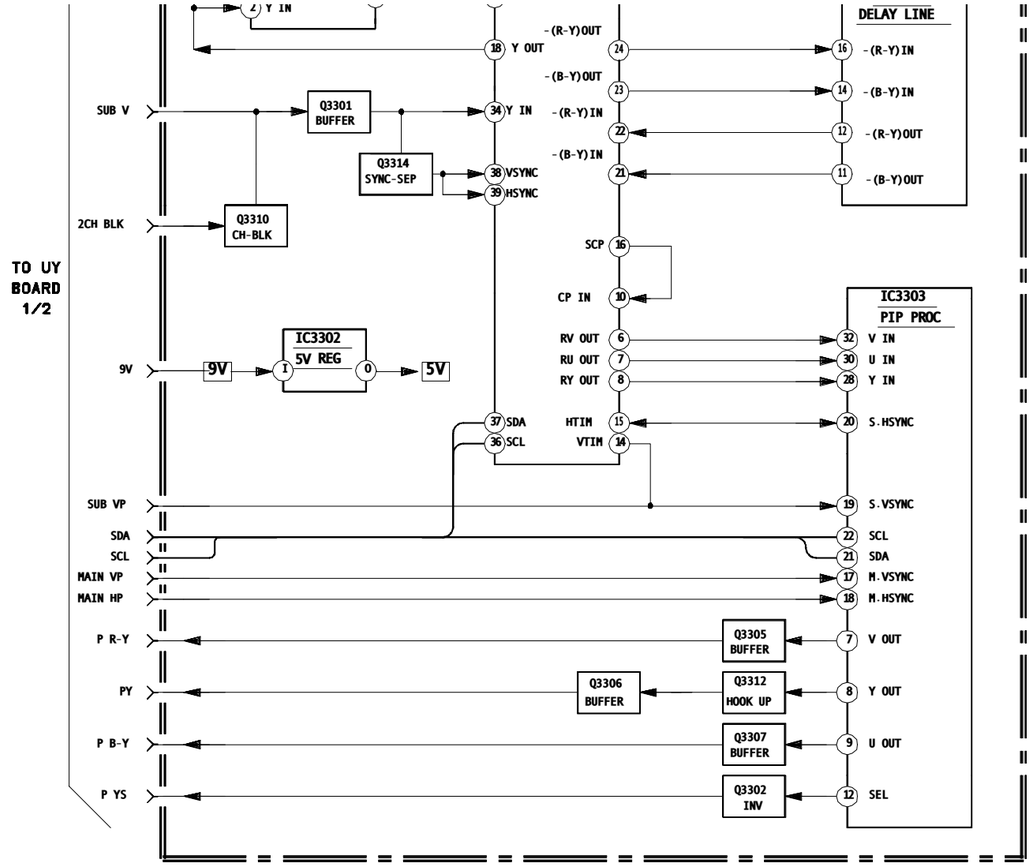
BLOCK DIAGRAM (2 OF 2)



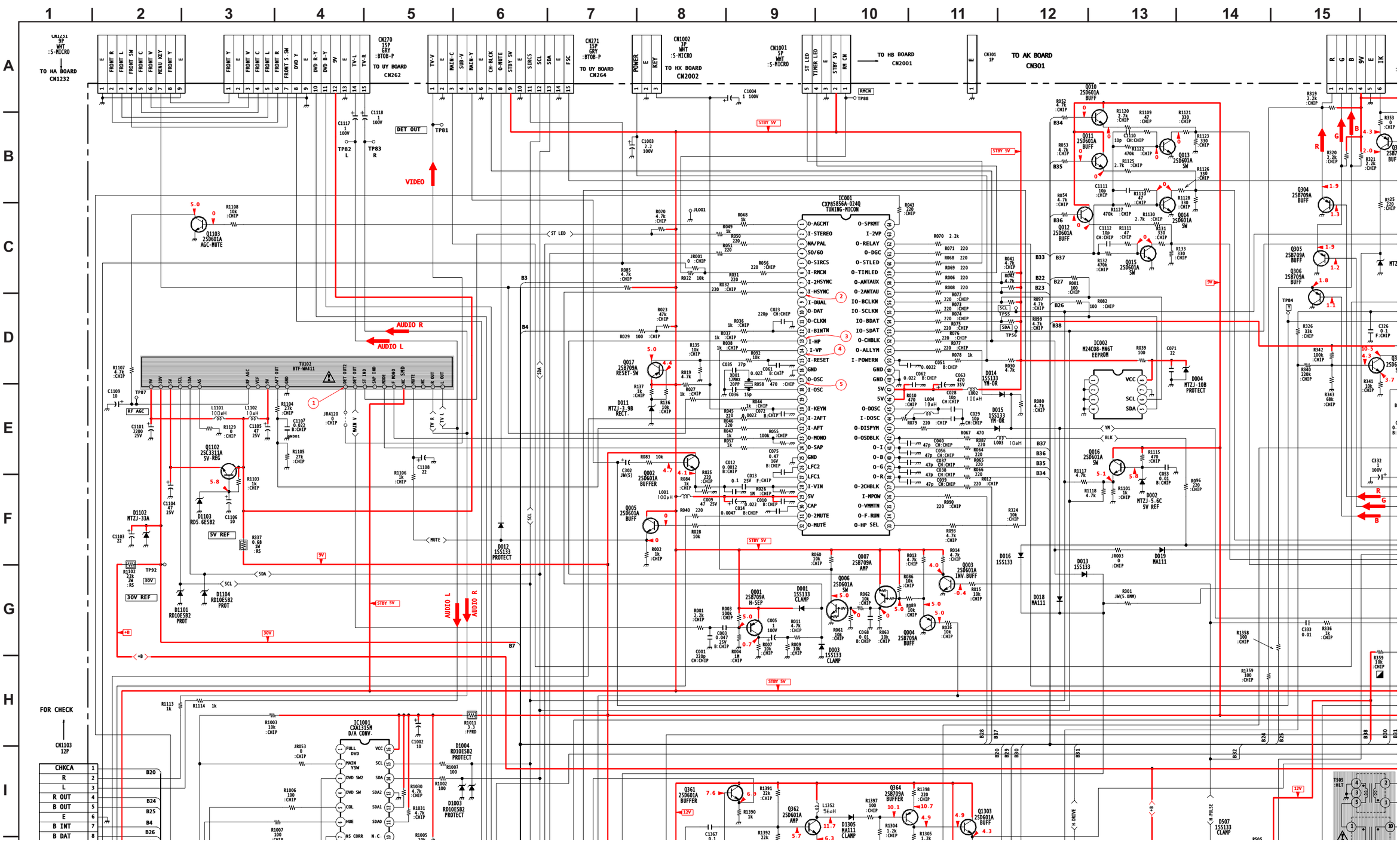

GA
POWER SUPPLY
+B RECT D6020
9V REG IC6005
12V REG IC6004
AUDIO RECT D6025
DRIVER Q6009
PWR CONTROL IC6003
PH6001 FEEDBACK
POWER ON MAIN-SW Q6005
PH6002 FEEDBACK
LATCH Q6008.Q6010
5V REG IC6007
T6002 PIT
IC6002 CONVERTER
FULL-RECT Q6002
AC RECT D6008
FULL-RECT Q6002
COMPARATOR IC6001
TH6001
RY6001
DBL-RECT Q6001
RY6002
T6000 & T6001
F6001 6.3A 250V
REF V IC6000
MAIN-SW Q6004
MCM SW Q6011
VCC-SW Q6003
T6003 SBT
TH6000
RY6000
DRIVER Q6000
TH6002
CONVERTER Q6006
CN6005
CN901
AC BCK
N.C.
AC WHT
S601
HZ POWER SWITCH
CN6004
CN902
AC IN
AC
CN6003
DGC
NC
CN6000
CN6001

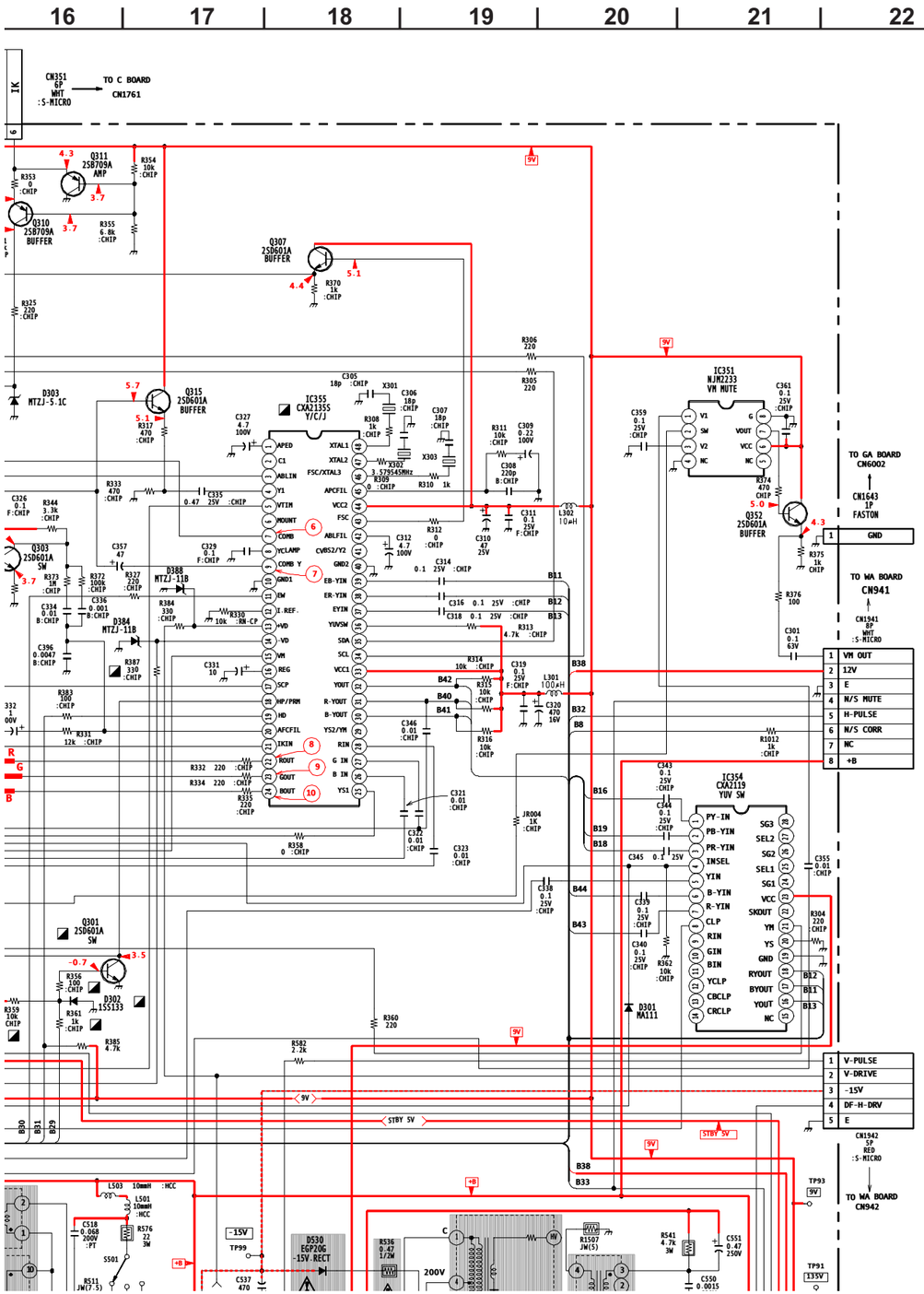

IC3308 YUV-SW
IC3304 CHROMA DECODER
DVD SW2
DVD R-Y
DVD B-Y
DVD Y
DVD SW
DV IN
DU IN
DY IN
Y IN
Y OUT
U OUT
V OUT
V IN
U IN
RY IN
RU IN
RV IN
V OUT
U OUT
-(R-Y)OUT
UY 2/2
PIP
PIP ENCODE
CHROMA DECODE
IC3305
DELAY LINE


N/S COIL +
N/S COIL -
CN941
N/S CORR
N/S MUTE
VM
H-PULSE
12V
TO A BOARD
CN1941
IC961
NS DRIVE
Q948 SW
Q941 BUFFER
Q949 AMP
Q942 BUFFER
Q944-Q945 Q966-Q968 BUFF/AMP
Q946.Q947 VM DRIVES 1.2
IC963 H-SAW
Q962 BUFFER
Q963.Q965 QP-H-DRIVE
IC965 9V REG
CN942
DF H-DRIVE
V-DRIVE
-15V
V-PULSE
TO A BOARD
CN1942
Q961 BUFFER
IC962 DF-COMP
Q1961 QP DR
Q943 AMP
-15V
Q1966 SW
IC964 V-PARA DRIVE
Q969.Q967 QP DR
Q1963 BUFFER
Q1967 BUFFER
Q1964 PROT
CN961
Q.P. -
Q.P. -
Q.P. +
Q.P. +
E
E
VM
VM
TO NECK ASSY
NECK ASSY
QP
QP
VM
VM

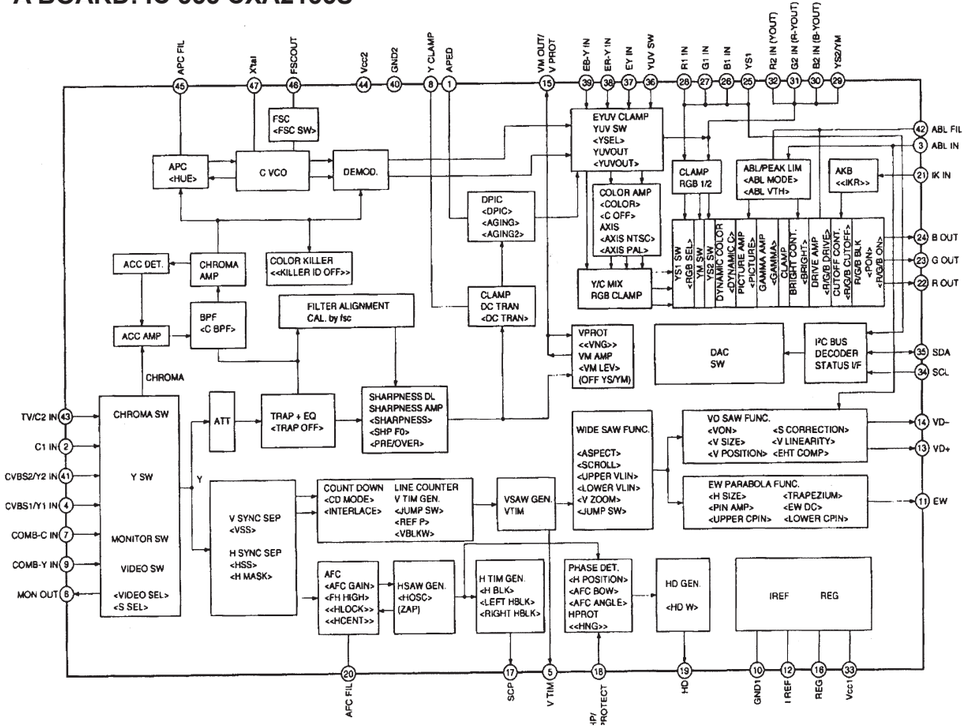

TO UY BOARD 1/2
2 Y IN
18 Y OUT
SUB V
Q3301 BUFFER
34 Y IN
Q3314 SYNC-SEP
38 VSYNC
39 HSYNC
2CH BLK
Q3310 CH-BLK
9V
9V
IC3302 5V REG
I
O
5V
37 SDA
36 SCL
SUB VP
SDA
SCL
MAIN VP
MAIN HP
P R-Y
PY
P B-Y
P YS
Q3305 BUFFER
Q3306 BUFFER
Q3312 HOOK UP
Q3307 BUFFER
Q3302 INV
-(R-Y)OUT 24
-(B-Y)OUT 23
-(R-Y)IN 22
-(B-Y)IN 21
SCP 16
CP IN 10
RV OUT 6
RU OUT 7
RY OUT 8
HTIM 15
VTIM 14
DELAY LINE
16 -(R-Y)IN
14 -(B-Y)IN
12 -(R-Y)OUT
11 -(B-Y)OUT
IC3303 PIP PROC
32 V IN
30 U IN
28 Y IN
20 S.HSYNC
19 S.VSYNC
22 SCL
21 SDA
17 M.VSYNC
18 M.HSYNC
7 V OUT
8 Y OUT
9 U OUT
12 SEL

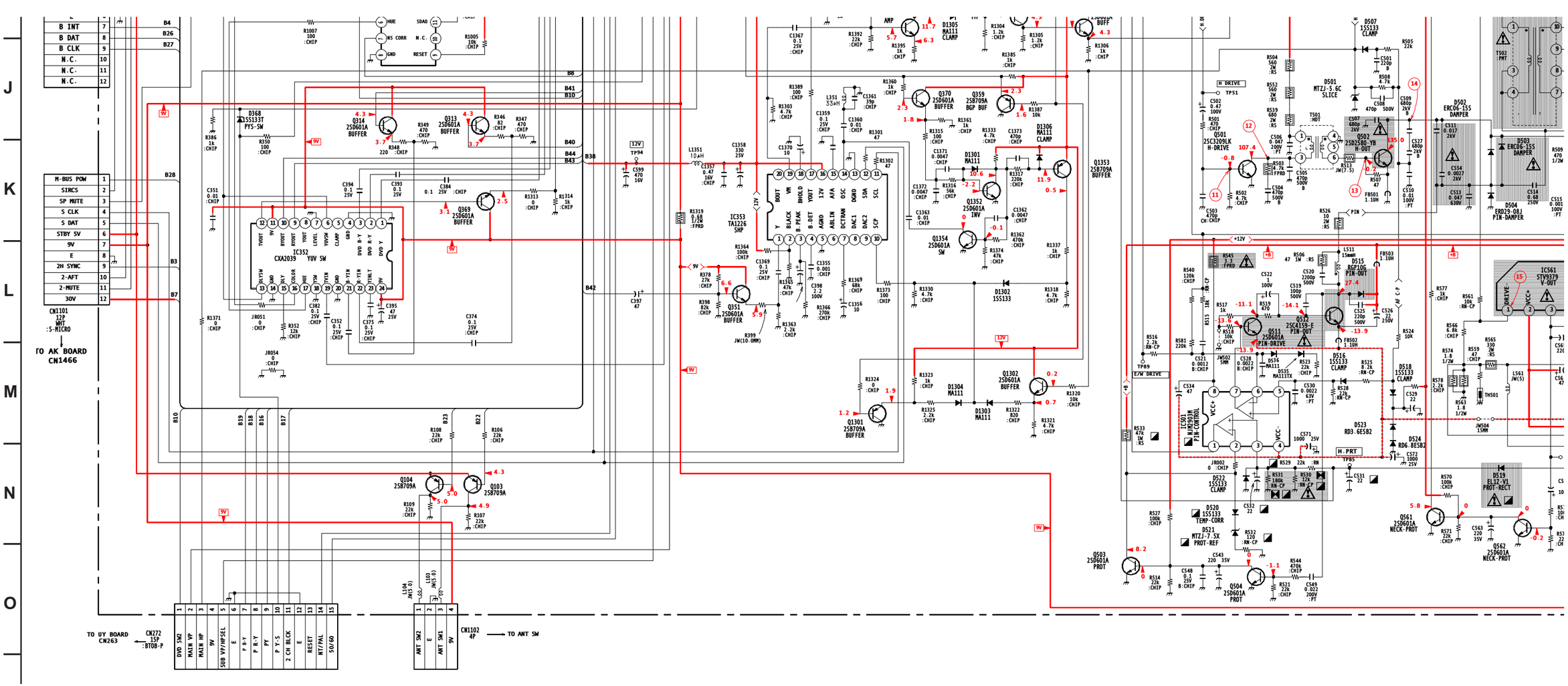
A BOARD SCHEMATIC DIAGRAM

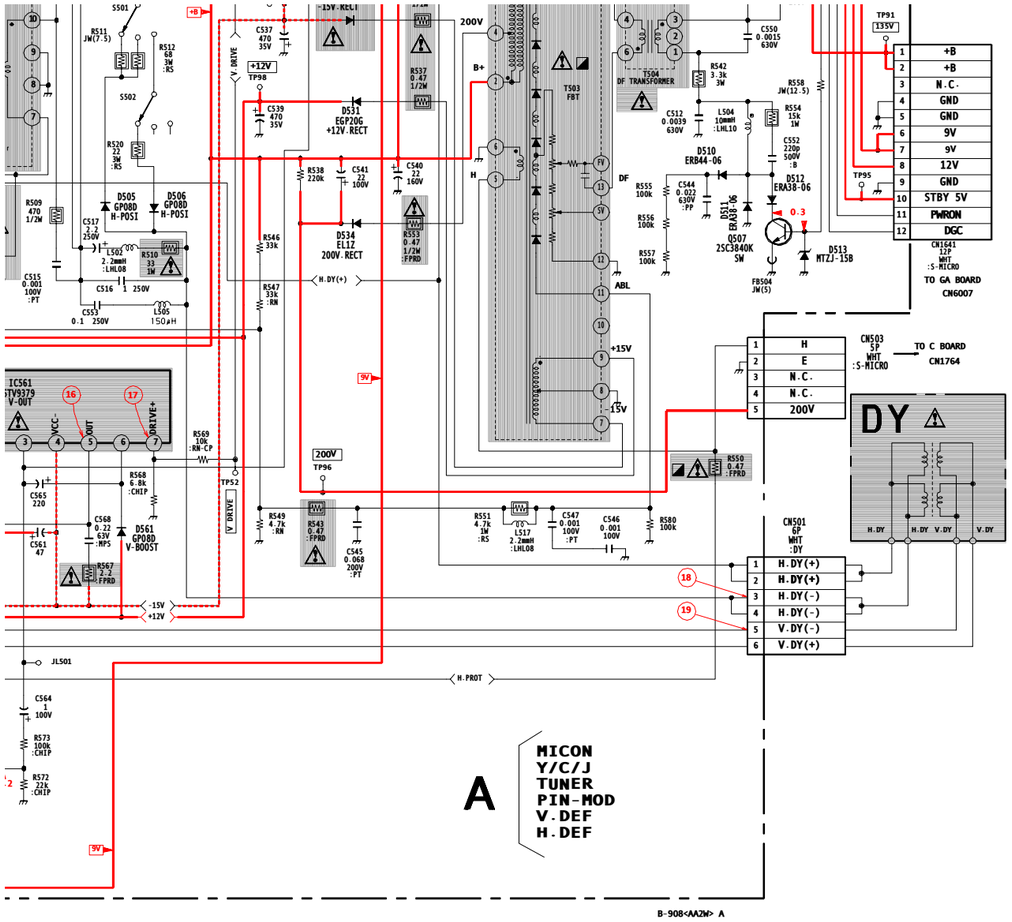




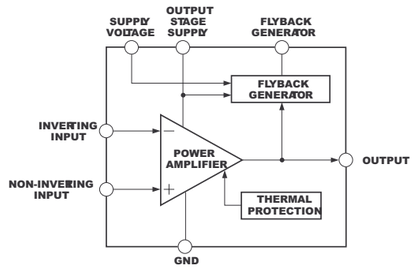
A BOARD: IC 355 CXA2135S



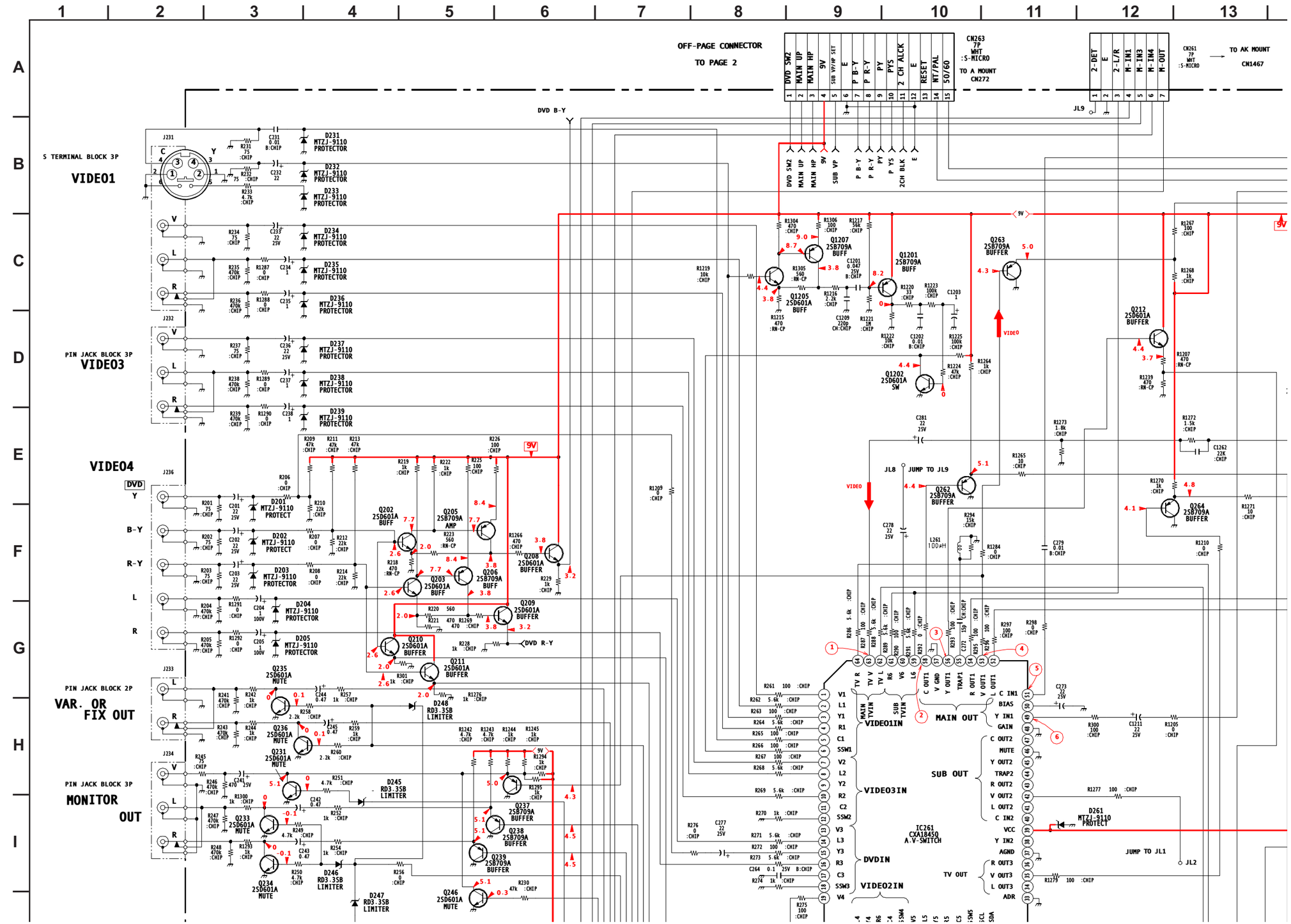

B INT 7
B DAT 8
B CLK 9
N.C. 10
N.C. 11
N.C. 12
M-BUS POW 1
SIRCS 2
SP MUTE 3
S CLK 4
S DAT 5
STBY 5V 6
9V 7
E 8
2H SYNC 9
2-AFT 10
2-MUTE 11
30V 12
CN1101 12P WHT :S-MICRO
TO AK BOARD CN1466
IC352 CXA2039 YUV SW
IC353 TA1226 SHP
IC561 STV9379 V-OUT
Q314 2SD601A BUFFER
Q313 2SD601A BUFFER
Q369 2SD601A BUFFER
Q351 2SD601A BUFFER
Q370 2SD601A BUFFER
Q359 2SB709A BGP BUF
Q1353 2SB709A BUFFER
Q1352 2SD601A INV
Q1354 2SD601A SW
Q1301 2SB709A BUFFER
Q1302 2SD601A BUFFER
Q1303 2SD601A BUFFER
Q1304 2SD601A BUFFER
Q104 2SB709A
Q103 2SB709A
Q501 2SC3209LK H-DRIVE
Q502 2SD2580-YB H-OUT
Q503 2SD601A PROT
Q504 2SD601A PROT
Q511 2SD601A PIN-DRIVE
Q512 2SC4159-F PIN-OUT
Q561 2SD601A NECK-PROT
Q562 2SD601A NECK-PROT
D501 MTZJ-5.6C SLICE
D502 ERC06-15S DAMPER
D503 ERC06-15S DAMPER
D504 ERD29-08J PIN-DAMPER
D507 1SS133 CLAMP
D515 RGP10G PIN-OUT
D516 1SS133 CLAMP
D518 1SS133 CLAMP
D519 EL12-V1 PROT-RECT
D520 1SS133 TEMP-CORR
D521 MTZJ-7.5X PROT-REF
D522 1SS133 CLAMP
D523 RD3.6ES B2
D524 RD6.8ES B2
D1301 MA111
D1302 1SS133
D1303 MA111
D1304 MA111
D1305 MA111 CLAMP
D1306 MA111 CLAMP
CN272 15P :BTOB-P
TO UY BOARD CN263
DVD SW2
MAIN VP
MAIN HP
9V
SUB VP/HPSEL
E
P B-Y
P R-Y
PV
P Y-S
2 CH BLCK
E
RESET
NT/PAL
50/60
CN1102 4P
TO ANT SW
ANT SW2
E
ANT SW1
9V
H DRIVE
H.PRT
PIN
E/W DRIVE
TP51
TP52
TP89
TP94
+12V
+8
9V
12V



A BOARD: IC 561 STV9379



UY (MAIN) BOARD SCHEMATIC DIAGRAM



14 15 16 17 18 19 20 21 22 23 24

NT

R2015 22k :CHIP

C2002 22 25V

R2016 22k :CHIP

R3513 100 :CHIP

R3512 100 :CHIP

9V

5V

L2009 10µH

C2049 47 16V

R2069 470 :RN-CP

R2070 33 :RN-CP

3.8

3.1

Q2018 2SB709A BUFF

R2071 5.6k :CHIP

C2056 15p CH:CHIP

R2072 560 :CHIP

Q2019 2SD601A BUFF

3.5

4.1

R2074 100 :CHIP

R2073 1k :CHIP

FL2004

R2060 100 :CHIP

4.1

Q2014 2SD601A BUFF

3.5

R2057 1k :CHIP

9V

R2055 47 :CHIP

Q265 2SD601A BUFFER

4.8

4.2

R1263 0 :CHIP

VIDEO

AUDIO-L

AUDIO-R

5V

C3570 10

C3571 0.01

C3569 10

C3568 0.01

R3599 0 :CHIP

R3511 0 :CHIP

36 35 34 33 32 31 30 29 28 27 26 25

DVSS TEST DVDD TEST TEST TRAP APCN DVSS TEST DVDD MTPLL 50/60

37 FIN
38 CKSL
39 PLSL
40 MCKO
41 ADCK
42 CPO
43 PLVS
44 VCV
45 PLVD
46 CLVD
47 CLPEN
48 CLVS

DTR 24
PNR 23
VEH1 22
VEH2 21
VEH3 20
MOD1 19
DVSS 18
MOD2 17
DVDD 16
TEST 15
VB 14
IRF 13

IC3504
CXD2064Q-T6
COMB FILTER

R3587 0 :CHIP

R3588 0 :CHIP

R3586 0 :CHIP

R3593 560 :CHIP

C3574 0.01 :CHIP

R3592 560 :CHIP

C3573 0.022 B:CHIP

C3575 10

C3577 10

C3576 0.01 :CHIP

C3566 10

C3567 0.01

C3565 0.1 25V F:CHIP

R3585 3.3k :CHIP

L2004 10µH

R2017 0 :CHIP

R2018 0 :CHIP

7 8 9

CLPO ADIN RB ADVS ADVD RT ACO DAVD AVO DAVS VG VRF

1 2 3 4 5 6 7 8 9 10 11 12

C3556 0.1 25V F:CHIP

C3557 0.01 B:CHIP

C3558 10

C3559 0.1 25V F:CHIP

C3560 0.1 25V F:CHIP

C3561 10

C3562 0.1 25V F:CHIP

C3564 0.1 25V F:CHIP

R3584 2.2k :CHIP

R3583 3.3k :CHIP

C3563 0.1 25V F:CHIP

C3578 0.01

R3582 220 :CHIP

L3581 1µH :FLR50

L3582 1µH :FLR50

R3527 220 :CHIP

C2060 0.01 F:CHIP

C2062 47 16V

5V

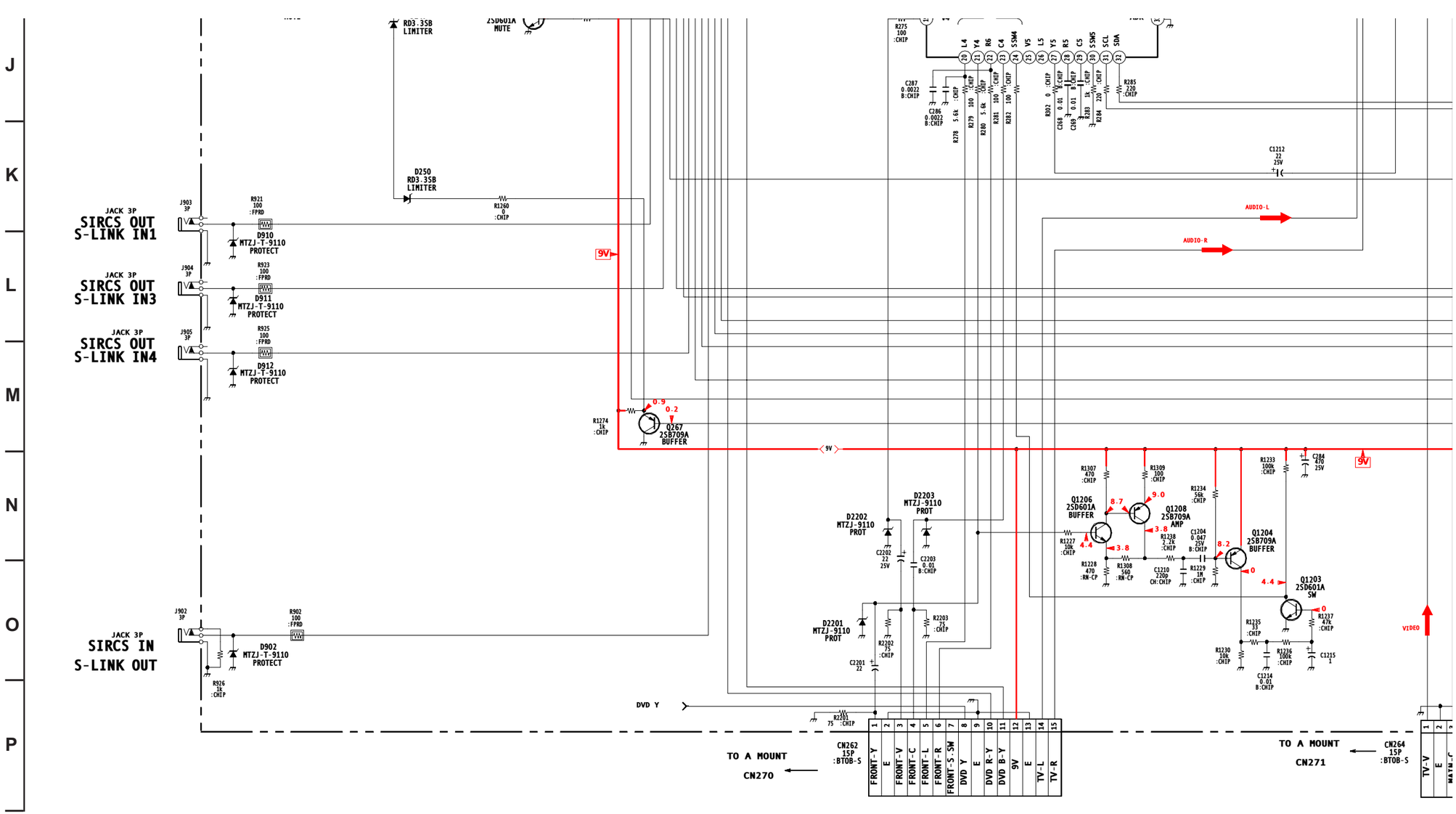
IC2006
NJM78M05DLA
5V REG

O I G

L2005 1000µH :EL0607

C3579 47 16V

C1213 470 25V


JACK 3P
SIRCS OUT
S-LINK IN1
JACK 3P
SIRCS OUT
S-LINK IN3
JACK 3P
SIRCS OUT
S-LINK IN4
JACK 3P
SIRCS IN
S-LINK OUT
D910 MTZJ-T-9110 PROTECT
D911 MTZJ-T-9110 PROTECT
D912 MTZJ-T-9110 PROTECT
D902 MTZJ-T-9110 PROTECT
D250 RD3.35B LIMITER
RD3.35B LIMITER
2SD601A MUTE
Q257 2SB709A BUFFER
9V
AUDIO-L
AUDIO-R
VIDEO
Q1206 2SD601A BUFFER
Q1208 2SB709A AMP
Q1204 2SB709A BUFFER
Q1203 2SD601A SW
D2202 MTZJ-9110 PROT
D2203 MTZJ-9110 PROT
D2201 MTZJ-9110 PROT
DVD Y
TO A MOUNT CN270
CN262 15P :BTOB-S
FRONT-Y
FRONT-V
FRONT-C
FRONT-L
FRONT-R
FRONT-S.SW
DVD Y
DVD R-Y
DVD B-Y
9V
TV-L
TV-R
TO A MOUNT CN271
CN264 15P :BTOB-S
TV-V

UY

3D LINE COMB FILTER
AV SW
AUDIO CONTROL
SRS

IC1051
CXA1315M
D/A CONV.

Q1051
2SB709A
OFF MUTE

D1051
MA111-TX
PROTECT

D1052
MA111-TX
PROTECT

Q2004
2SB709A
BUFF

Q2005
2SD601A
BUFF

Q2008
2SD601A
AMP

Q2010
2SD601A
Y-BUFF

Q2003
2SB709A
BUFF

Q2006
2SD601A
BUFF

Q2007
2SD601A
AMP

Q2009
2SD601A
C-BUFF

FL2002

FL2001

L1201
1μH
:FLR50

L1202
1μH
:FLR50

SDA

SCL

1	A-IV	10	OFF MUTE
2	E	9	R
3	MAIN-C	8	L
4	SUB-V	7	E
5	MAIN-Y	6	VAR R
6	E	5	VAR L
7	CH BLCK	4	IR ON/OFF
8	O-MUTE	3	E
9	STBY 5V	2	IR R
10	E	1	IR L
11	SIRCS		
12	SCL		
13	SDA		
14	E		
15	FSC		

CN265
10P
WHT
:S-MICRO

TO AK BOARD

CN1464

B-908<AA2W>UY P1..

PRINTING THE SERVICE MANUAL

The PDF of this service manual is not designed to be printed from cover to cover. The pages vary in size, and must therefore be printed in sections based on page dimensions.

NON-SCHEMATIC PAGES

Data that does NOT INCLUDE schematic diagrams are formatted to 8.5 x 11 inches and can be printed on standard letter-size and/or A4-sized paper.

SCHEMATIC DIAGRAMS

The schematic diagram pages are provided in two ways, full size and tiled. The full-sized schematic diagrams are formatted on paper sizes between 8.5" x 11" and 18" x 30" depending upon each individual diagram size. Those diagrams that are LARGER than 11" x 17" in full-size mode have been tiled for your convience and can be printed on standard 11" x 17" (tabloid-size) paper, and reassembled.

TO PRINT FULL SIZE SCHEMATIC DIAGRAMS

If you have access to a large paper plotter or printer capable of outputting the full-sized diagrams, output as follows:

1) Note the page size(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your large format printer. Confirm that the printer settings are set to output the indicated page size or larger.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT TILED VERSION OF SCHEMATICS

Schematic pages that are larger than 11" x 17" full-size are provided in a 11" x 17" printable tiled format near the end of the document. These can be printed to tabloid-sized paper and assembled to full-size for easy viewing.

If you have access to a printer capable of outputting the tabloid size (11" x 17") paper, then output the tiled version of the diagram as follows:

1) Note the page number(s) of the schematics you want to output as indicated in the middle window at the bottom of the viewing screen.

2) Go to the File menu and select Print Set-up. Choose the printer name and driver for your printer. Confirm that the plotter settings are set to output 11" x 17", or tabloid size paper in landscape ( ) mode.

3) Close the Print Set Up screen and return to the File menu. Select "Print..." Input the page number of the schematic(s) you want to print in the print range window. Choose OK.

TO PRINT SPECIFIC SECTIONS OF A SCHEMATIC

To print just a particular section of a PDF, rather than a full page, access the Graphics Select tool in the Acrobat Reader tool bar.

1) To view the Graphics Select Tool, press the mouse button over the Text Select Tool which looks like:
This tool will expand to reveal to additional tools.
Choose the Graphics Select tool by placing the cursor over the button on of the far right that looks like:

2) After selecting the Graphics Select Tool, place your cursor in the document window and the cursor will change to a plus (+) symbol. Click and drag the cursor over the area you want to print. When you release the mouse button, a marquee (or dotted lined box) will be displayed outlining the area you selected.

3) With the marquee in place, go to the file menu and select the "Print..." option. When the print window appears, choose the option under the section called "Print Range" which says "Selected Graphic".

Select OK and the output will print only the area that you outlined with the marquee.

(continued >)

ON-SCREEN SEARCH OPTION

All of the text within the service manual PDF is content searchable. This means that you can enter any text, word, phrase or reference number that appears in the manual, and the PDF software will search, find and move the cursor to the location where you requested text first appears. This feature can be particularly useful in locating components on a specific schematic or printed wire circuit board (PWB) diagrams.

Follow these steps to effectively locate a component on a schematic diagram:

1) Locate the schematic you want to search by clicking on the corresponding bookmark on the left side of the screen. The view on the right of the screen will then jump to the desired schematic page.

2) Magnify the diagram to at least 400% before conducting a component search. This will enable you to easily view the reference number when it is highlighted on screen. To do this, click on the magnifying glass button on the tool bar at the top of the screen. Move the cursor over the diagram and RIGHT click you mouse. Select the 400% magnification option on the pop-up menu. Click on the button with the icon of the open hand to deactivate the magnification tool

3) Search the diagram (or the entire manual) by clicking on the binocular button tool at the top of the screen. The “Find” window will appear and allow you to type in your desired text. Type in a reference designator, such as R502, and click on the “Find” button. If the component is not on the diagram, but is listed anywhere else in the manual, the cursor will jump to the first location the text is found in the file. To find another instance of that same text, click on the binocular button again and select “Find Again.”